

# SEQUENCE LISTING

<110> Rosen et al.

<120> 31 Human secreted proteins

<130> PZ026P1C2

<150> 09/787,889

<151> 2001-03-06

<150> 09/393,022

<151> 1999-09-09

<150> PCT/US99/05721

<151> 1999-03-11

<150> 60/077,714

<151> 1998-03-12

<150> 60/077,686

<151> 1998-03-12

<150> 60/077,687

<151> 1998-03-12

<150> 60/077,696

<151> 1998-03-12

<160> 185

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

gggatccgga	gcccaaattct	tctgacaaaa	ctcacacatg	cccaccgtgc	ccagcacctg	60
aattcgaggg	tgcaccgtca	gtcttctctt	tcccccaaa	acccaaggac	accctcatga	120
tctcccggac	tcctgaggtc	acatgcgtgg	tggtggacgt	aagccacgaa	gaccctgagg	180
tcaagttcaa	ctggtacgtg	gacggcgtgg	aggtgcataa	tgccaagaca	aagccgcggg	240
aggagcagta	caacagcacg	taccgtgtgg	tcagcgtcct	caccgtcctg	caccaggact	300
ggctgaatgg	caaggagtac	aagtgcaagg	tctccaacaa	agccctccca	acccccatcg	360
agaaaaccat	ctccaaagcc	aaagggcagc	cccgagaacc	acaggtgtac	accctgcccc	420
catcccggga	tgagctgacc	aagaaccagg	tcagcctgac	ctgcctgggtc	aaaggcttct	480
atccaagcga	catcgccgtg	gagtgggaga	gcaatgggca	gccggagaaac	aactacaaga	540
ccacgcctcc	cgtgctggac	tccgacggct	ccttcttctt	ctacagcaag	ctcaccgtgg	600
acaagagcag	gtggcagcag	gggaacgtct	tctcatgctc	cgtgatgcat	gaggctctgc	660
acaaccacta	cacgcagaag	agcctctccc	tgtctccggg	taaatgagtg	cgacggccgc	720
gactctagag	gat					733

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2  
Trp Ser Xaa Trp Ser  
1 5

<210> 3  
<211> 86  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer containing a XhoI site

<400> 3  
gcgccctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60  
cccgaaatat ctgccatctc aattag 86

<210> 4  
<211> 27  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer containing a HindIII site

<400> 4  
gcggcaagct ttttgcaaag ctaggc 27

<210> 5  
<211> 271  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Fragment flanked by XhoI and HindIII sites

<400> 5  
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60  
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120  
gcccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180  
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 6  
<211> 32  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Primer containing a XhoI site

<400> 6  
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7  
<211> 31  
<212> DNA  
<213> Artificial sequence

<220>

<223> Primer containing a HindIII site

<400> 7  
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8  
<211> 12  
<212> DNA  
<213> Artificial sequence

<220>  
<223> NF-KB binding site

<400> 8  
ggggactttc cc 12

<210> 9  
<211> 73  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Fragment containing a XhoI site

<400> 9  
gcgggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60  
ccatctcaat tag 73

<210> 10  
<211> 256  
<212> DNA  
<213> Artificial sequence

<220>  
<223> Fragment flanked by XhoI and HindIII sites

<400> 10  
ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct 60  
caattagtcg gcaaccatag tcccgccct aactccgccc atcccgcccc taactccgcc 120  
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
cttttgcaaa aagctt 256

<210> 11  
<211> 790  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (55)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (112)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (137)

<223> n equals a,t,g, or c

<400> 11

tcaactgggt	gaaaaggaaa	acccaccctt	ggcgccnaat	acgcaaaccg	ccttntcccc	60
ggcgcgttgg	ccgatncatt	aatgcagctg	gcacgacagt	tttcccgact	gnaaagcggn	120
cagtgcgcgc	aacgcantta	aatgtgagtt	agctcactca	ttagcacccc	aggctttaca	180
ctttatgctt	ccggctcgta	tgttggtggtg	aattgtgagc	ggataacaat	ttcacacagg	240
aaacagctat	gaccatgatt	acgccaagct	ctaatacgac	tcactatagg	gaaagctggt	300
acgcctgcag	gtaccgggtcc	ggaattcccc	ggtcgaccca	cgcgctccggt	tgaatgcact	360
gagtcacctg	gtgtagtagc	aataaggaaa	aatgaaatta	ctttcctgtg	cacacagtcc	420
agcctaattg	gtatgtgatg	ttgcacttag	cagccatgtg	gtgggcatgt	gtgactactc	480
tggttttcac	tttagtttct	aaacttttta	tccctctcaa	gtccagcatg	gatggggaaa	540
tgtctctgga	tccccacagc	tgtgtacttg	tttgcatattg	tttccctttg	agatttgtgt	600
ttgtgtcctg	ctttgagctg	taccttgctc	agtccattgt	gaaattatcc	cagcagctgt	660
aatgtacagt	tccttctgaa	gcaagcaaca	tcagcagcag	cagcagcagc	agcacaattc	720
tgtgttttat	aaagacaaca	gtggcttcta	wwaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	780
aaaaaaaaaa						790

<210> 12

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (552)

<223> n equals a,t,g, or c

<400> 12

ttcggcacga	ggtctttacc	tccaaactaa	cttcttttct	gaacagtaga	atagtttttc	60
atactatcat	catttggaatg	gagctcttta	aactgacctc	agagatcaga	ttcataacct	120
tttgtccaga	gcaatggatg	cctttgctgg	ttccccgttc	tcattgatgg	tccctaaatg	180
tgtacttata	ctgttctgtc	tagtctacag	cttacagtg	attcagcctt	attcaagctt	240
attgaattca	gcctcggtgc	cttatcacca	cgggcttaaa	ctagctaata	ttttattaat	300
tgtattctat	cctcacatac	attctatccc	tttttccctc	agtcacacct	ctaaactgca	360
catctgatca	catttgaatc	ttagctcctt	tacttgcttt	ctggccttgg	gcagttgttt	420
ataatgctct	gtgtcctcca	ttcctcctgc	ctcctactgt	ggttcatggc	ttaatatatg	480
taaaactatg	cattacctta	ctgcttaaaa	ctcttaaaat	taaaaaaaaa	aaaaaaaaac	540
tcgagggggg	gncc					554

<210> 13

<211> 1106

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1017)  
 <223> n equals a,t,g, or c

<400> 13

gagcaagctc	atTTTTTTTT	cctatgaggc	TTTTgtaagt	cctgacctgt	atttactgtt	60
aacttcttag	cttgggttca	tgcacccccca	gtcagtataa	ctgtggacct	cataccact	120
ttggcacagg	cttgaggtat	ggatttatta	caggtctgtt	tctTTTTgtt	tttctcccat	180
ttatggctct	ggacagaagg	taagcttctt	tgcaacttcc	ctgggtccgg	gggtagagtt	240
ttcttgtccc	ctttccagat	gttaggtttt	aaacaatgac	tgttctttct	ccatcatgta	300
gaccaaaggc	caagtcttgt	gtcccatg	gagattaaaa	cccaagcccc	tatgtctagg	360
tccagtcccc	actgatttct	ctaattgtga	gtctttctgc	ttacctagta	cctagagttt	420
ctcttcccaa	gttttaaaaa	tatcagttct	aagtaggcct	agcgtttcta	catattttta	480
gggagagggg	accctttctg	tggcagctca	gtgttcagca	ttcctgtaag	ttagcatgct	540
ctgtgtatag	cagatatcac	tagtaatagc	atttrgtaag	tgatgttcac	acatgctgct	600
gtcatgaaca	ctatctcatg	ttgtgtaaca	ctttcatttt	tccaagaact	ttataatcag	660
ccgacttgaa	actcacagtc	gtcccctcag	aaaggcaggg	caaatgttgt	tatttccaat	720
ttgtcagaag	ctcagaaaagc	ttattctgtt	gctgacagtc	cttgcaaggg	tcagaatcag	780
gaccggagcc	ccagatgcgc	tgggtgtcact	gatgtcccgt	gccgggcatg	agcccttctg	840
tgcaaggagc	tccagtgtct	cccggacagt	gatgatgtga	aaacatttag	aaccgacct	900
cacaataagg	cagattttca	ttctgtaccc	aaaacaggaa	cacagattta	atgcagagca	960
aaagggcttt	aatcaacaga	tatgttcatt	tttcacgtag	acctatttta	caagctnact	1020
tgtaaGCCag	aaaatgacat	tcgagatttt	caagtgagaa	caaatgattt	ggtccaataa	1080
ttaaaaaaaa	aaaaaaaaaa	ctcgag				1106

<210> 14  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 14

gtggatccaa	agaattcgca	cgagtgccga	tcagctcgga	ccgaaaaaag	tggtttwatt	60
cgggctggct	tgttgccgtg	tgagcgggtc	gttttatgcc	atggcttttt	ggttcactgg	120
tctgccgttg	ctgagtttaa	ttctgctgtg	cattggcagg	gtgtttctcg	gcgtcggcga	180
aagctttgcc	agtacggggt	ctaccctatg	ggggattggc	ctgggtggggc	cgttgcat	240
cgcccggtt	atctcatgga	atgggggtggc	gacttacggg	gcgatggctg	ccggggcacc	300
gctcgggtgt	tacctcaatc	agcactgggg	gttggtcggg	gtggcggcgt	tgatcgtgtt	360
ggcgggtggc	gtttcgctgt	ggctggcgag	tgcgaacca	acgtgacgat	cgccgcccgt	420
aagcgtattg	cctttagcgc	atgttggggc	gtatttggac	ttacgggtctg	ggacttgcaa	480
tgggtaccgt	gggttttggc	ggcacgagag	tacttctaga	gcggccgcgg	gcccacgat	540
tttccaccgc	ggtgggggtac	caggtaat				568

<210> 15  
 <211> 3692  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (518)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (606)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (639)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2303)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2441)  
 <223> n equals a,t,g, or c

<400> 15

aattcggcac	agggttggtt	tctmatgttc	cagggtccggc	cagggtggca	gctcctgctg	60
gtcatgtttt	cctcatgtgc	tgtttccaac	cagctcttgg	tctgggtaccc	agcaactgcc	120
ttagcagaca	acaaacctgt	agcacctgac	cgacgaatca	gtgggcatgt	gggcatcatc	180
ttcagcatgt	catacctgga	aagcaaggga	ttgctggcta	cagyttcaga	agaccgaagc	240
gttcgtatct	ggaagggtgg	cgacctgcga	gtgcctgggg	gtcgggtgca	gaatattggg	300
cactgctttg	ggcacagcgc	ccgtgtgtgg	cagggtcaagc	ttctagagaa	ttaccttatc	360
agtgcaggag	aggattgtgt	ctgcttgggt	tggagccatg	aagggtgagat	tctccaggcc	420
tttcggggac	accagggayg	tggkayccgg	gccatagctg	cccatgagag	gcaggcctgg	480
gtgatcactg	gggggtgatga	ctccaggcat	cggctgtngc	acttggtagg	gctgtgggtac	540
cggggatttg	gggtctcggc	tctctgcttc	aagtccccta	gtaggccagg	tacactcaag	600
gctgknactc	tggctggctc	ttggcgactg	ctggcagtna	ctgatacagg	ggccctgtat	660
ctctatgacg	tcgagggtcaa	gtgctgggag	cagctgctag	aggataaaca	tttccagtc	720
tactgcctgc	tggaggcagc	tcctgggtccc	gagggtctcg	gattgtgtgc	tatggccaat	780
ggggaagggtc	gtgtcaagggt	tgtccccatc	aacactccaa	ctgctgctgt	ggaccagacc	840
ctgtttcctg	ggaagggtgca	cagcttgagc	tgggcccctg	gtggttatga	ggagctcctg	900
ttgctggcat	cgggcccctg	cggggtagta	gcttgccctag	agatctcagc	cgcaccctct	960
ggcaaggcca	tctttgtcaa	ggaacgttgt	cgggtacctgc	tgcccccaag	caagcagaga	1020
tggcacacat	gcagtgcctt	cctaccccc	ggtracttcc	tggtgtgtgg	tgaccgccgg	1080
ggctctgtgc	tgctattccc	ctccaracca	ggctgtctca	aggaccctgg	ggtgggaggc	1140
aaggctcggg	ctgggtctgg	ggcactgtag	tgggtagtgg	tagtagtggg	ggtgggaatg	1200
ctttcactgg	gttgggcccc	gtgtctaccc	tgccctctct	gcacgggaag	cagggtgtga	1260
cctcagtcac	atgccatggg	ggctatgtgt	ataccacagg	gcgtratgga	gcctactacc	1320
agctgtttgt	acgagacggc	cagctccagc	cagtcctaag	gcagaagtcc	tgctcaggca	1380
tgaactggct	agctgggctc	cgtatagtgc	ccgatgggag	catggttatc	ctgggtttcc	1440
atgccaatga	gtttgtgggt	tggaaacctc	ggtcacacga	gaagctgcac	atcgtcaact	1500
gtggtggagg	gcaccgttcg	tgggcattct	ctgatactga	ggcggccatg	gcctttgctt	1560
acctcaagga	tggggatgtc	atgctgtaca	gggctctggg	tggctgcacc	cggccacacg	1620
tgattctccg	ggagggtctg	catggccgtg	agatcacttg	tgtaaagcgt	gtgggcacca	1680
ttaccctggg	gcctgaatat	ggagtggccc	gcttcatgca	gcctgatgac	ctggagcctg	1740
gcagtgaggg	gcccgcacttg	actgacattg	tgatcacatg	tagtgaggac	actactgtct	1800
gtgtcctagc	actccctaca	accacaggct	cagcccacgc	actcacagct	gtttgttaacc	1860
atatctcctc	ggtacgtgct	gtggctgtgt	ggggcattgg	caccccagggt	ggccctcagg	1920
atcctcagcc	aggcctgact	gcccattgtg	tgtctgcggg	ggggcgggct	gagatgcact	1980
gcttcagcat	catggttact	ccggaccccc	gcaccccaag	ccgcctcgcc	tgccatgtca	2040
tgcaccttts	gtcccaccgg	ctagatgagt	attgggaccg	gcaacgcaat	cggcatcgga	2100
tggttaagggt	agaccagag	accaggtaat	atatgctcct	gggcagggtg	tggtaggggt	2160
catgcagatg	ctcccaggct	tgcaggctcc	acctgacagc	tgcattgtgt	ctctgcagggt	2220
acatgtccct	tgctgtgtgt	gaacttgacc	agcccggcct	tggccccctt	gtggctgcag	2280
cctgtagtga	tggggccgta	agntctttct	tttgcaggat	tctgggcgga	ttctgcagct	2340
ccttgctgaa	accttccacc	ataagcratg	tgtcctcaag	gtccactcct	ttacacacga	2400
ggcacccaac	cagaggcgga	ggctcctcct	gtgcagcgca	ntactgatgg	cagcctggct	2460
ttctgggatc	tcaccaccat	gctagaccat	gactccactg	tcctggagcc	tccagtggat	2520
cctgggcttc	cctaccggct	tggcaccccc	tccctgactc	tccaggcccc	cagctgtgggt	2580
atcaacagcc	tgccacacct	gcccacccgt	gagggccacc	atctcgtggc	cagtgggcag	2640
gaagatggat	gcctccatgt	cttcgtgctt	gctgtggaga	tgctacagct	agaagaggct	2700
gtgggagagg	ctgggctggg	accccagctg	cgtgtgctag	aggaatactc	tgtccccctgt	2760
gcacatgctg	cccatgtgac	aggcctcaag	atcctaagcc	caagcatcat	ggtctcagcc	2820
tccattgatc	aacggctgac	cttctggcgt	ctggggcatg	gtgaaccac	cttcatgaat	2880
agcactgtgt	tccatgtgcc	tgatgtggct	gacatggact	gctggcctgt	gagccctgag	2940

tttggccacc	gttgtgcccc	tgggggtcag	gggcttgagg	tttacaactg	gtatgactga	3000
ggtatcctgc	ggtggctggc	gtgctgggca	tggggcctgc	tcacagacag	catggagcag	3060
ggaagggctg	tctgtgcccc	tgctcagcat	gccttgaggg	gaggaggtgg	tggccgtggg	3120
ttcctgatgt	cggtgcagga	gctgaagggtg	agtggaggtgc	tgccaagaat	atgcccgaact	3180
ccccatgaca	agacagaact	ttgtaacaaa	cagtaccaat	ttattttggc	cgtgggtttt	3240
tgcttttttt	ccagttgatg	actttgtgaa	cattcccagg	tattggagcc	tctgtggcct	3300
taaatgtggc	tcagtgagg	gagaccacgc	atagccaggc	cagtatggag	cacctcacgc	3360
acagctctca	gaagctgcag	gcggacgaac	atctgaccaa	agaggtgtgg	tcgaggctcc	3420
tgaaagagaa	agggcctgct	ggtctcatcc	tctgcttcct	ttgcctttac	cctatacctc	3480
tctgcacgtc	ccaccccggt	ttgctgtgtg	ctcaccacca	ggatgtgtac	ccggttgtag	3540
taggagctga	aatccatgct	gagctgtacc	aggaacttgc	atatctagag	acagagactg	3600
agtcactggc	ccatctcttt	gctcttgtgc	cccaggccag	aataaagaat	agagtgtara	3660
gtraaaaaaa	aaaaaaaaaa	aaaaaactcg	ag			3692

<210> 16  
 <211> 1428  
 <212> DNA  
 <213> Homo sapiens

<400> 16						
agcaggggttt	gagcctcctg	gagacattga	atttgaggat	tacactcagc	caatgaagcg	60
cactgtgtca	gataacagcc	tttcaaattc	cagaggagaa	ggcaaaccag	acctcaaatt	120
tggtggcaaa	tccaaaggaa	agttatggcc	gttcatcaaa	aaaaataagg	tactgatggt	180
tggcgtgaaa	tgagttttct	aagggtgtgga	gattttgact	tgatctttta	gtcttagaaa	240
aactaagatc	ctaaacctgt	agtttcagaa	tgcaaaagaa	gaagctagt	tgctacctta	300
tggttgagaca	gtattttctt	ttgggtgggtg	tatctttgcc	atggccctgt	gtcttatttc	360
agatgcatta	tcctcgtacc	gtgactccca	cactaacaga	gtactgacct	ctccaccgtt	420
tcgcctcatg	cctttccctc	cttcctctcc	tagactgctg	gttaccttgg	ctgggagaga	480
ggatgtagtg	ggacattcct	gtaacacttt	atccgcacat	ctactggaaa	tcgttaccat	540
gttaataact	tggtttttgaa	ttcatgttaa	catgtgtacc	catgaacatt	tttcattttc	600
ttttcatagt	gcgatacata	ggtgcatgac	agcattaacc	tggggacgta	gaatatgatc	660
aaggcagcat	tactgcttta	actttagaat	gacttactat	ttattaattt	aaacagactg	720
ctgtttccac	aaccttagca	ttgaaggctc	ttcattttct	cccatcaagc	tatgttagtt	780
taggtaatgt	agaaatattt	accctctggc	ttaagctgg	ttagagtaac	taactagagc	840
tatagtttgc	atgggaaagt	ctgcacgagc	ttcttgctcag	atatttcttg	ctcttctgtc	900
gcattactta	ctaaacctcc	caactctcat	catattcttc	atttaaccac	ctcctacatg	960
ttttcttttg	gaccatggcc	taaaatttaa	ttgtttgtgt	tttacttgcg	ttggatttca	1020
aatattattt	gatgcttatt	tttgttttgt	gtcttcttgt	ttctgatttt	tactctgtca	1080
cggctccatc	tcttacatgt	agcttatgtc	ccttttaaca	tccccccatc	agcctcccc	1140
tccccctcct	gcctctgcct	cacctctgc	tgttcccaac	ggccccag	ctcccaagca	1200
gcaaaaggaa	cccctctccc	accgcttcaa	cgagttcatg	acctccaaac	ccaaaatcca	1260
ctgcttcagg	agcctaaagc	gtggggtaag	ttctgtctcg	gaatcctgtc	tctctggcgt	1320
gcttttggtg	catgttttgt	tctgcataac	taattttgtt	tgtgaatgaa	tccattgtgt	1380
tttcccataa	catataaaaa	agttaaaaaa	aaaaaaaaaa	aactcgag		1428

<210> 17  
 <211> 1489  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (7)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (345)  
 <223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (549)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1408)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1477)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1488)  
 <223> n equals a,t,g, or c

<400> 17

ggagganagg	atgatgatga	aggaccgtac	acaccattcg	acacccccctc	gggtaaactg	60
gaaacagtg	aatggg	cacctggccg	ctgagtttcg	tcttatactt	cactgtaccc	120
aactgcaaca	agccgcgctg	ggagaaatgg	ttcatgggtga	cgtttgcttc	ctccacgctg	180
tggatcgag	ccttctccta	catgatgggtg	tggatgggtca	caatcattgg	ttacaccctg	240
gggattcctg	acgtcatcat	ggggatcacc	ttcctggctg	ctgggaccag	cgtgcctgac	300
tgcattggcca	gcctcattgt	ggccagacaa	rggatggggg	acatngctgt	gtcaaactcc	360
attggggagca	acgtgtttga	catcctgatt	ggcctcggtc	tcccctgggc	tctgcagacc	420
ctggctgtgg	attacggatc	ctacatccgg	ctgaatagca	gggggctgat	ctactccgta	480
ggcttgctcc	tggcctctgt	ttttgtcacg	gtgttcggcg	tccacctgaa	caagtggcag	540
ctggacaana	agctgggctg	tgggtgcctc	ctcctgtatg	gtgtgttcct	gtgcttctcc	600
atcatgactg	agttcaacgt	gttcaccttt	gtgaacctgc	ccatgtgcgg	ggaccactga	660
accgccgggt	gcccacagar	gtcagctcc	ttcttttctg	tgcaatacga	raccgggccg	720
cacccgartc	acacaggccc	ctggggccac	ggcgttcgct	tctcctgtgc	tgtcctcagg	780
cctccgctcc	tgttttggtg	gccargctc	tcccctgccc	catcctcgct	ccccacctc	840
cttgggtcat	gcccaccac	cctttcctgc	ctcctccgtg	tkaagacatc	caacatccac	900
gtgacttttc	cagctccatt	tttgaacagt	gactgagatt	ctagaaaaac	ccggctgcta	960
actggcctga	gccaggcaac	actgattcca	atccctyytc	cttttttaag	ttatttgatg	1020
gaagactcac	ctaatttgtg	acctgagact	gttgaagaaa	tagagaggag	ggggcccgtt	1080
gattacagag	agcatttggg	attttgtttg	gtttggagat	gatgcctagg	ttactgggtt	1140
tgggggggatt	gttttctttt	gggggccttc	cccttttact	ccttttcttc	cagagatcaa	1200
gagcttctct	tgcattctct	tccactgggc	tctggattaa	tcaattaccc	aaaggctgca	1260
cctgccgtgt	tgtctgggct	tgcattcccg	atgtgttgga	gtatgcatgg	atgtagtgct	1320
ttttagctga	ggcactgggc	aaggccacca	agaacaaatg	catgacattt	tatagccaag	1380
gacgcctcac	taaagtctta	tgggcgtnc	ctggggttgg	gggggcacaa	ggttttggag	1440
gaagaagaca	acttcctcat	tccatcatca	ccatctnttt	ctcactang		1489

<210> 18  
 <211> 1940  
 <212> DNA  
 <213> Homo sapiens

<400> 18

acgcgtccgc	ttcccagaaa	atagatgaca	tcagtgcgcc	ttgctacttt	ctcagtcctc	60
actattgctt	tgagggccca	ggtactgaaa	ctgggtgtct	tgagttttgt	gtcagctttt	120
tctccagtc	attatcccc	tcccttgctt	ctgaagcagt	ctagggtaaa	ctagccaggc	180
aggtagttgt	ggaactgggtg	attttcaaaa	gccccacttt	agagatcagg	ccacagcttt	240
ttatatcgca	caggacacat	cagcctgagc	tgctgcctca	tgctgttttc	cccaggaacc	300
tcactccttt	ggtagaacct	tgggatttta	gaaattgtgg	ctttccataa	ctcattttact	360
ccaacagttg	aagttacaca	cattgctccc	aaatttggaa	atagaccaca	gtaccttacc	420
tttcattccc	catctggcct	ttaccttctt	tgcttcagtg	gttgaaaaca	gttgccatat	480
tcaaagtata	gtagatttca	acctcacaca	aatgacaagt	cccattttac	aatcctagga	540



aggcccacca	atttcatttc	acgcgccagg	gcggtctgcag	ttggaggccg	agggcagccc	600
tctgtctact	gaatgtcttg	catgtgctga	ctgctgccc	cagtgtctgaa	catgcccac	660
cgcccaggcc	cagcactgct	tgttgggtca	gcctctagt	ctgctgtcac	atctttgtct	720
gcacagccag	taggattgcc	tcagccagg	ggtttatcag	aagggtgtgca	aggcctttgg	780
gggaactgag	cccctatagt	gggcagtctc	ctttaccttc	ccacctccct	gaaaagcaca	840
gaagacagt	ccttggtttg	tgttttgaag	caaacaagtc	agctttctgg	ctttgcccc	900
aaactgtgat	ggaacataat	aaaactggag	atatggtttt	taacactgca	aaaaggaaaa	960
agcatcaagt	ttctacttct	ggctggaaa	caaaaccaat	ctcagctgac	aaggctgggc	1020
aaactaagtt	ttcctgagcc	cattttcctt	tgagccctga	cctagcctgg	ccttacctca	1080
ttaagggttt	gttaaagcag	tggaaaggag	gaggaggcag	gggtggatgg	gggtgtgggg	1140
aggggatgag	cactctgcag	ccgattaatc	tgttggtagg	ggcccagctt	cttgggagtg	1200
cttattcagc	ccaagagtgg	aggctgttta	cagcgagccc	tggagatggc	agcttgtctc	1260
cagctgggga	gggtgcaggc	ccctaaattg	aagaccactt	tggtagcaga	actgtaggga	1320
ctggtgagtc	aactcacaga	ttctgcagca	gctgctccac	ccacaataaa	gcaaacgccg	1380
acaggctaga	ccccagattg	caggggctgc	cactacaagg	tgggaccaca	ggctgcctca	1440
ccgggattgt	ttgccactaa	atagctggag	tcacagattg	agataaatgc	caccttcaag	1500
gttgcaagt	aaagcataat	cctatgtgat	gaatttatat	gtgttatttt	ttaaaaagct	1560
attttattac	tgcagtgttc	cgctccgtct	tgtgaatgtg	agtccccgcc	accacgtgag	1620
gtgcagtcgt	tgcagcggct	gggtgcaggag	tgccactggc	gcgtgtgtga	tagcatctcg	1680
taggtgttgc	tgcacaagag	ttaaccagag	tcaatgccaa	acacatagta	tgagaagtgt	1740
actttttaag	aaattaattt	atttgagttc	aaatattttt	gaaatataaa	aattgggtgt	1800
attttttaaa	gctataattc	ttgtagacat	tctgtgggta	aaaatttgat	tgtgcttatt	1860
aaaaatggtc	atctatgttt	tgcacttcag	ctacgtgaaa	ataaaaatttc	tttggaagg	1920
tgaaaaaaaa	aaaaaaaaaa					1940

<210> 19

<211> 1592

<212> DNA

<213> Homo sapiens

<400> 19

ccacgcgtcc	gagcaattta	taaattgata	ccagtaatac	gggtgccttga	caaactagat	60
tgttttagacc	atgttatgtg	acctcatctt	gttatatta	ataaaaatgg	caatttatca	120
tctgataata	ctgcagtttt	tctgtagtgt	ttgctctgag	cctgacactg	cactgagtat	180
ttccccactg	taggtcatat	tattgtcccc	attttgccga	tgaagacctg	agagggtgggt	240
aggggagcga	aagtggtcag	tgagggtgctg	gtgggggtgga	ggggccaagg	atcagctgag	300
gctttctgac	ctgagagctg	gcagtgccca	cccaacagct	ctacctgtta	catttctgtt	360
atcctcatgc	catcctctga	ataaacatcc	atcacgctgg	tccttgggtac	ccacgacaat	420
gacagcttgt	cagccctggg	ccagtgtgtg	ggcacgtgga	catggggaag	cccagagggtg	480
gcaaggatgg	agtgggttcc	atgtggggag	gataaggggtg	catggagctg	gcaggggagtg	540
taagaccggg	aaggccagtg	ggagccagcc	cgggggagc	ggacctggaa	tgccagcatc	600
agaagacttc	cccgcagtag	gctcttggtg	actggggctc	acctcccttc	tgtctgctgc	660
aggatggggg	gcatgaagtc	caagttcctc	caggctcggag	gcaatacatt	ctcaaaaact	720
gaaaccagcg	ccagcccaca	ctgtcctgtg	tacgtgccgg	atcccacatc	caccatcaag	780
ccggtgagta	ggggagggtcc	cagtttccct	gggggctgac	ggatgctgcc	ccaacattgc	840
cctaacagcc	tcctgtcttc	ccaagggttg	gcagggtag	cttgggggtga	aagggtgctg	900
actggccacc	aacagtgtcc	tgactcgact	ctccgggacg	cagcgccagc	cagcatgcat	960
aggggcaaag	aagtcattct	tctttcctgc	agcccaggct	tggcccttca	gcctgagctc	1020
caccaaacag	gtgtgagtga	gcattctcag	cctccggcct	gggcagaagc	aaaagcagtg	1080
ctgagaaacg	agtgaacagt	aatgatagca	gctgaagtga	caatgtaatg	gtagtatcag	1140
cagcatttga	aaaatacagt	aacaattgtc	atactaatag	taccaaccat	aattgcgtga	1200
gtataagacc	aagagtagca	gcaggaaacaa	cagcaagagt	tgtaaaaaga	gaagcagtc	1260
tgctaggaga	ggatatttacc	aacttctttt	atgtttatc	aaagctgact	atgaaccag	1320
cactgttgta	agccttttac	gttattaaca	ccctaattct	cacaataatc	ctattgtgtg	1380
acacacaaat	acattcttct	tgaataataa	aacacaggcc	aggtgcagtg	gctcacactt	1440
gtactcccag	cattttggga	ggctgaggca	ggaggattac	ttgagcccag	gagttcgaac	1500
tgcattgagct	atgatcacgc	cactgcactc	cagcctgggc	aatacaggga	gaccctgtct	1560
ctttaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			1592

<210> 20

<211> 1410

<212> DNA  
 <213> Homo sapiens

<400> 20

gcccacgcgt	ccgagaaaaa	tgctgctcag	tttttattgt	ctaccaatgg	taagtataca	60
tatttttcttt	ccatgtgccc	actgtgtgta	cctgttgcac	atatacctgta	gcctaggaga	120
ggaatcattt	aacagagata	cttgtaaaaa	ggacttttgt	ttttctatac	agaatgtaaa	180
ctctactttt	ttactgtcac	ttgcagtttt	tagattctct	gaaagattct	ctgatagcaa	240
ttttttgttt	actacacctc	caattttag	tgaagaagaat	gggctgctat	accattggat	300
ttaggtcagg	tactatttct	gtcatttctc	agtctcgtaa	tcttgggcag	gttactaaca	360
ctgaattgaa	ttttcctcag	cagcaaaacta	gagatagcaa	ttttttatta	tagtattatt	420
atgaatatta	aataacttca	catacatcat	gagtgcaagt	gctcaataaa	tggttaattta	480
ttcctccttt	ttaagtgttt	gtaaactaca	cagagtatct	caaactgcag	atacaaaaata	540
ctcaaaggat	ggtctccatt	ccaggatacg	ctataggaga	gcacttttctt	acttgatcac	600
cattagcata	ttgccttctt	cccagcaatc	cacatggctg	gaaggagatt	cctctcctac	660
tgtttacttg	ccaagggaac	attttttgtt	gttttttgag	acaatgtctg	tcgccagggc	720
tgaagtgcac	tggtgtaatc	acagctcact	gcagcctcga	cctccctacc	tcagtctcct	780
gagtagctgg	gaccacaggt	gagtgccacc	acaccggct	aatttttttaa	aaacattttt	840
gtagagcctg	ggtaacatgg	ggtggaacaa	gcctgtagtc	ccagatactc	aggaggctga	900
ggtgaaagga	ttgcttgggc	cagggaggctc	aaggctgcag	tgagccgtga	aaggccactg	960
cactccagcc	tgggtgacag	aatgagacct	tgtctcaaaa	aaaaaaaaaa	agtttcttgg	1020
aacctatacg	tttttttttt	tttttttttt	gaaaagccag	accttgtgcc	cttgttttga	1080
acaccgactg	ggaagatggg	gcttaggtaa	cagccaaacc	tggctgtcag	ctgtgtggga	1140
gccaccacc	tctctgggaa	gagttcctgc	ttctgtatgg	caagcataaa	tcaagctcag	1200
tctgggttat	ggagaagtgg	aaaattgttt	tgttcctcat	tagtttataa	ttgtatgaaa	1260
tacgatttta	atgaaaactt	ttcagaattc	acgtttgtgt	agatatttca	gagaaccatt	1320
tttactttac	atcctaaaac	tgctttttcc	tatggttttg	tcaataaaac	actatgatgt	1380
tgaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				1410

<210> 21  
 <211> 1727  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (979)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1047)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1135)  
 <223> n equals a,t,g, or c

<400> 21

ccacgcgtcc	ggccatgggt	gccactgtct	gtggcctcct	ggtcttctctg	agcctggggc	60
tggtaccccc	agtccgctgc	ctgtttgcac	tcagcgtgcc	caccctgggt	atggagcagg	120
gccgccggct	gctcctgtcc	tacagcactg	ccaccctggc	cattgctgtg	gtgcccacg	180
tcctggccaa	cgtgggtgcg	gccgggcagg	tgctgaggtg	tgtcaccgag	ggctccctgg	240
agagtctcct	caataaccact	caccagctgc	atgcagcatc	cagggctctg	ggccccacag	300
gccaggcagg	cagccggggc	ctgacatttg	aggccaggga	caatggctct	gccttctacc	360
ttcacatgct	cacggtcact	cagcaggctc	tggaggattt	ctctggcctg	gagtccttgg	420
cccgggcagc	agcgctaggg	accagcgag	tggtcacagg	gctgtttatg	ttgggcctcc	480
tggtggagtc	ggcatgggtac	ctccattgct	acctgacaga	cctgcgggtt	gacaatatct	540
acgccactca	acagctgacc	cagcggttgg	cacaggccca	ggctacacac	ctcctggccc	600
ctccacccac	ctggctgctc	caggcggctc	agctgaggct	gtcacaggag	gagctgttga	660

gttgtcttct	aaggctgggg	ctgcttgccc	tgctcctcgt	ggccacggct	gtggcggtgg	720
ccacagacca	tgtagccttc	ctcctggcac	aggctactgt	ggactgggct	cagaagttgc	780
caactgtgcc	catcacgctc	acggtcaagt	atgatgtggc	atacactgtc	ctgggcttca	840
tccctttcct	cttcaaccag	ctggctccgg	agagccctt	cctctccgtc	cacagctcct	900
accaatggga	gctccgcctc	acctccgccc	gctgcccact	gctacccgcc	cggcgctccc	960
gcgagctgc	cccgtggnc	gcggggggcc	tgagctcct	ggcgggctcc	acggtgctcc	1020
tggagggcta	cgcccgcgc	ctgcggnatg	ccatcgccgc	ttccttcttc	acagcccagg	1080
aggcgaggag	gatccgccac	ctacacgccc	ggctccagcg	aagacacgac	aggcnccaag	1140
gccagcagct	gccccctagg	gatccttctt	gcgtcccccac	acccagacct	gcctgcaagc	1200
ctccggcatg	gatagcctac	aggctggatg	ccttaagaac	cgagagcagt	gagggagaag	1260
ggaaagagct	ttggagttgc	agagacctga	gttgtcacct	tggtcctgtg	ccgcctccct	1320
gtgtgacctt	gggtaagtca	cttcacctct	ctgagcctcg	gtttctacat	ctgcataacg	1380
acagcatatt	taccattgat	gtgacctact	tcccacgcag	ggatgtgggtc	aggatggaag	1440
gaaatactgg	gcatgatagg	cctggataac	cggtaaagaa	ccatgcaaag	gcgaagacaa	1500
ggagtgcaga	gagagctcat	ggttcctcca	ggctgggttg	cgatcaggct	catctcatct	1560
gcaccaactg	ctctacttgt	tagatggaga	ccttgcatca	tgaatttctc	gaaatgctcc	1620
tggaaacttat	ttatatgcct	caaaatcctc	taaactcatt	tatagtaacc	catagtttta	1680
attttataaa	taaacgtatt	tattaaatct	taaaaaaaaa	aaaaaaa		1727

<210> 22  
 <211> 1218  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (389)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (740)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1048)  
 <223> n equals a,t,g, or c

<400> 22						
gaaaatagaa	taaatgccca	tccataagac	taaaatttct	tgtgtttttc	tccttctgag	60
tttaaaatgg	cactggatga	caaatggaaa	gcttgatgct	gctcttaatg	tgccgctagg	120
attccgggga	tttcaaagcc	agtggacggg	aggtggcctc	tgccagtgtc	tgtctgggtg	180
ctgtctgtgt	cactgtgggtg	ctgcctgggc	cacagacctc	ggcaggaccc	tgggtgatgg	240
agctcctgtc	tgggtgggtgt	gtgtgggcag	tgctgttcct	gtccacgtta	gaaaagccct	300
cttactttac	actgagtcac	gtccctctc	caccacggac	cgcagtcccc	ttccctagtg	360
actcgctgtc	cccttccctt	gttgcccant	ttctggcttt	aaatgaggag	agcttaagaa	420
tggatgggga	gctcagcact	cacagtaact	gttgggtgaac	tcagggcctg	ctacgtctgg	480
aacacatcaa	gccatttagt	gggtgagggtc	attcactgtt	tttaaatgct	gctgcagctc	540
ttattttctca	tgaagccctt	tatacctatt	aaatacttca	tagtattgaw	taacttagct	600
gsytgctcct	ctctgtcatg	gcaccttttg	ctcatgtgga	ctttawggtg	cagaaacacg	660
aatcgattgt	cgtaatgaac	aamamccctc	tgaagtggcc	acggcgggta	tgattcgtcc	720
cagttcacgg	gcgagtaacn	gaggtgcgca	gtggcggggc	agctggccca	ggctcgtgcag	780
ctgctgtgcg	tgagccagct	cgctcctgag	tttccttttg	tttgacagca	ttttgtttac	840
agacaccaca	ccaatccttg	gtcttgagata	catcagaaaa	gttgaggttc	tagaggtggg	900
tggaggcagg	acttgtacc	tctccttgca	gcaaagacaa	attcattaag	catttggaac	960
acttgtttaag	ttcagtttgt	ctctctctaa	aagttatcac	tagatgactc	tctcatTTTT	1020
gtgtgtgcgt	gttttagatt	tgctgtgnac	ttacgaccag	ggatactggc	tttctatttta	1080
tggtagtaaat	agcagttctc	cttttaaaata	aacttatttt	cagccaaaag	agtgattagg	1140
tctatcaaaa	aatgataagg	aaataaacag	tacagatcgt	ctatatattat	ggcaaaaaaa	1200
aaaaaaaaagg	gcggccgc					1218

<210> 23  
 <211> 712  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (26)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (28)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (77)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (117)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (124)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (696)  
 <223> n equals a,t,g, or c

<400> 23  
 taggcccggg acggttacaa tttacncngg aaccgctttg cccataggct ttgcaaaaag 60  
 ctttttaggt gccactntag aaggtacccc tgaagggtacc ggtccggaat tcccggntgg 120  
 accnacgct cggaggaggt cytttaggaa gactctcaaa ggcaaatccc tgatcccccg 180  
 cccaccctt agccctgccc tctcaccaga gcaaaattca ctgggggactt ttcccaccac 240  
 acatggaaat ctgtccactc ggaatacctc tgttttccat ttcaaattgt aggggggaggg 300  
 gatggaacac ttccagtgat ggtaagagat ctgttatgaa acgaaacacc ccccggtgta 360  
 ataacttggg ctgaaatctg tttttatgag cggggccccc tgtgcctcta gtatacttgt 420  
 attgactctc atagttaccc ttttagtttt actgtgttct gtgaaaattt gtaatttggtt 480  
 gagaatcact gtgggcgtcc attcttattc aactaaatct ccacagggtt tttgagctgg 540  
 tgtggattag ttttaactct gtattcaacc attagtgcta ccaccttctc acattacaat 600  
 acaattactg gaagcaagta ctgcatttcc tatgcaacaa aaaaggaaaa ataaaaaatt 660  
 gctaattgcta aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aagggcggcc gc 712

<210> 24  
 <211> 1422  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
 gtctccgctc ctgtgcccgga gaagatgggtg ctaggtgggtt gcccgaatca cgccattttt 60  
 taacatctct ttttgatcaa acaagaaaaa gcatttgagg aatgcaaaga ggactgagaa 120  
 tactttgggt taaattttgc ccccgagaatc ttgttggttg cctactgaag agatgaaacc 180  
 atggcagaag tagaatcctt atagaaacag gaccagaaac acctcccttc tccaacaaaa 240  
 gggttcatttt ggtggctgtc cgtttgacct gctgtgcttc agtttaattg gcttggaag 300

gggtcagcag	ggtgaaaccg	aacccccagaa	aacttgatga	agaaatgtct	tttgcccgtt	360
ttgattacgt	gcatgcaaac	agcgatttgc	aaagaccgta	tgatgatgat	catgatctta	420
ctggtgaatt	acagacctga	tgaatttata	gaatgtgaag	acccagtgga	tcattgttga	480
aatgcaactg	catcccagga	acttggttat	ggttgctctca	agttcggcgg	tcaggcctac	540
agcgacgtgg	aacacacttc	agtccagtgc	catgccttag	atggaattga	gtgtgccagt	600
cctaggacct	ttctacgaga	aaataaacct	tgtataaagt	ataccggaca	ctacttcata	660
accactttac	tctactcctt	cttcctggga	tgttttggtg	tggatcgatt	ctgtttggga	720
cacactggca	ctgcagtagg	gaagctgttg	acgcttgag	gacttgggat	ttggtggttt	780
gttgacctta	ttttgctaatt	tactggaggg	ctgatgccaa	gtgatggcag	caactgggtgc	840
actgtttact	aaaaagagct	gccatcatgg	cccaggagg	cgggtgaaag	ctccgtcttc	900
tgaattcatc	tctacaggct	caaaactcct	ctttgatatc	agacctgatg	ttattttcct	960
tcttttggag	ggcatttgtt	tggtaagaa	ggcttctttg	gactttggaa	tttcaaccca	1020
gattttacct	tgcagacgga	atgacaagca	aaaagtgttg	tggggaatca	aattttgttc	1080
tttcctcatg	cacaaaacat	aaaggatagt	ggcaggttta	caagctgtgg	atgggtttcc	1140
atagtcttcc	tttctgtaca	ttgctatatc	ttcagtcctt	tggagcaagt	ggacctaa	1200
agttgagcaa	aatgaatatt	tggatccatg	ttcctcttgt	gacctgagt	cttcatgcaa	1260
ggagatctga	agctgaacaa	tgaaaatctt	cagcagaaat	agaaatggcc	gtggattgta	1320
atacacactg	aaattctgac	tttctgaatt	taaatgtaga	ataaatttta	ccaacttgga	1380
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	ag		1422

<210> 25  
 <211> 1038  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (806)  
 <223> n equals a,t,g, or c

<400> 25						
ggcacgagtg	gctgcagcgg	ggcccgcgtg	gtgcctcctg	aggcggcccc	cggtatgaaga	60
gatctgggaa	cccgggagcc	gaggtaacga	acagctcggg	ggcagggcct	gactgctgctg	120
gaggcctcgg	caatattgat	tttagacagg	cagacttctg	cgttatgacc	cggctgctgg	180
gctacgtgga	ccccctggat	cccagctttg	tggctgccgt	catcaccatc	accttcaatc	240
cgctctactg	gaatgtgggt	gcacgatggg	aacacaagac	ccgcaagctg	agcagggcct	300
tcggatcccc	ctacctggcc	tgctactctc	taagcrtcac	catcctgctc	ctgaacttcc	360
tgcgctcgca	ctgcttcacg	caggccatgc	tgagccagcc	caggatggag	agcctggaca	420
cccccgcggc	ctacagcctg	ggcctcgcgc	tcctgggact	gggcgtcgtg	ctcgtgctct	480
ccagcttctt	tgcactgggg	ttcgctggaa	ctttcctagg	tgattacttc	gggatcctca	540
aggaggcgag	agtgaccgtg	ttccccttca	acatcctgga	caaccccatg	tactggggaa	600
gcacagccaa	ctacctgggc	tgggccatca	tgacgcagc	ccccacgggc	ctgctcctga	660
cgggtgctggt	ggccctcacc	tacatartgg	ctctcctata	cgaagagccc	ttcaccgctg	720
agatctaccg	gcagaaagcc	tccgggtccc	acaagaggag	ctgattgagc	tgcaacagct	780
ttgctgaagg	cctggccagc	ctcctnctg	cccccaagtgg	caggccctgc	gcagggcgag	840
aatggtgcct	gctgctcagg	gctgcccccg	gcgtgggctg	ccccagtgcc	ttggaacctg	900
ctgccttggg	gaccctggac	gtgccgacat	atggccattg	agctccaacc	cacacattcc	960
cattcaccaa	taaaggcacc	ctgaccccaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1020
aatttggggg	ggggcccc					1038

<210> 26  
 <211> 1906  
 <212> DNA  
 <213> Homo sapiens

<400> 26						
ccgcaacgca	gtgagctcgc	ggccgcgagc	aacaggccgt	gccgrgtttg	catttcctta	60
ctgctttgtc	ttgaagacag	aacgatgcca	aagaaagcaa	agcctacagg	gagtgggaag	120
gaagaggggc	cggctccctg	taagcagatg	aagttagaag	cagctggggg	gccttcagct	180
ttaaactttg	acagtcccag	tagtctcttt	gaaagttaa	tctcgcccat	caagacagag	240
acttttttca	aggaattctg	ggagcagaag	ccccttctca	ttcagagaga	tgaccctgca	300

ctggccacat	actatggggtc	cctgttcaag	ctaacagatc	tgaagagtct	gtgcagccgg	360
gggatgtact	atggaagaga	tgtgaatgtc	tgccggtgtg	tcaatgggaa	gaagaagggt	420
ttaaataaag	atggcaaaagc	acactttctt	cagctgagaa	aagattttga	tcagaaaagg	480
gcaacgattc	agtttcacca	acctcagaga	tttaaggatg	agctttggag	gatccaggag	540
aagctggaat	gttacttttg	ctccttgggt	ggctcgaatg	tgtacataac	tcccgcagat	600
ctcagggcct	gccgccccat	tatgatgatg	tgcagggttt	catcctgcag	ctggagggag	660
agaaacactg	gcgccctctac	cacccactg	tgccctggc	acgagagtac	agcgtggagg	720
ccgaggaaag	gatcggcagg	ccggtgcatg	agtttatgct	gaagccgggt	gatttgttgt	780
actttcccag	aggaaccatt	catcaagcgg	acactcctgc	ggggtggcc	cactcgactc	840
acgtgaccat	cagcacctac	cagaacaatt	catggggaga	tttccttttg	gataccatct	900
cggggcttgt	atttgatact	gcaaagggaag	acgtggagtt	acggaccggc	atacccggc	960
agctgctcct	gcwgggtggaa	tcacaaactg	ttgctacaag	acgattaagt	ggcttctctga	1020
ggacacttgc	agaccggctg	gagggcacca	aagaactgct	ttcctcagac	atgaagaagg	1080
attttattat	gcacagactc	cccccttact	ctgcgggaga	tggggcagag	ctgtcaacac	1140
caggtggaaa	gttaccgagg	ctggacagtg	tagtgagact	gcagttttaa	gaccacattg	1200
tcttcacagt	actgccggat	caagatcaat	ctgatgaagc	tcaagaaaag	atggtgtaca	1260
tctatcattc	cttaaagaat	agtagagaga	cacacatgat	gggaaatgag	gaggaaaacag	1320
agtttcatgg	acttcgcttc	cctttgtcac	atltggatgc	actgaagcaa	atltggaata	1380
gtccagctat	ttctgtcaag	gacctgaaac	ttactacaga	tgaggaaaag	gaaagcctgg	1440
tattatccct	ctggacagaa	tgtttaattc	aagtagtcta	gtgcctttgc	agaatcaaat	1500
gcctactatt	ttatatgcat	atattaaaag	aaaagcaaag	acctgagccg	aggagaggat	1560
gaattcaagt	ttccttacct	gcgtatctac	taacaaacat	gagacctccc	tgttacaggt	1620
ggtcagttgg	ccaaatgtac	taacgggcac	atgaaagaaa	gaacagcaaa	ttaccaagtg	1680
tctcagaaaa	tgacaaaacc	atattttgac	aagtttatgt	aatccagtgt	ggtagaaaag	1740
gcacaattcc	aatgtatcat	ttagaattga	atgtcattaa	cctggctttg	ttccttggaa	1800
gaaacaactt	ctttaaagag	cttctttggc	tctagaaaaa	tttcaaacia	ttaaaataag	1860
aaaaaatttt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	ctcgag		1906

<210> 27  
 <211> 847  
 <212> DNA  
 <213> Homo sapiens

<400> 27						
tggtggcggc	atacatcgcc	ttcacaatgg	cgctctgcag	ctgcgtgttc	tgcagcgtgt	60
cgagcatctt	catctgctcc	atcacgctgt	aaaacacatt	tgcaccgcga	gtctgcccg	120
cctccacggg	ttcattgctg	cgagtgtag	acctgggarg	atggscggcc	tgctgctggc	180
tgtttttctg	gctttgggtc	cggtgcccag	ggcccaggcc	gtgtggttgg	gaagactgga	240
ccctgagcag	cttcttgggc	cctggtacgt	gcttgccgtg	gcctcccggg	aaaagggctt	300
tgccatggag	aaggacatga	agaacgtcgt	gggggtgggtg	gtgaccctca	ctccagaaaa	360
caacctgcgg	acgtgtcct	ctcagcacgg	gctgggagg	tgtgaccaga	gtgtcatgga	420
cctgataaag	cgaaactccg	gatgggtgtt	tgagaatccc	tcaataggcg	tgctggagct	480
ctgggtgctg	gccaccaact	tcagagacta	tgccatcatc	ttactcagc	tggagttcgg	540
ggacgagccc	ttcaacaccg	tggagctgta	cagtctgacg	gagacagcca	gccaggaggc	600
catggggctc	ttcaccaagt	ggagcaggag	cctgggcttc	ctgtcacagt	agcaggccca	660
gctgcagaag	gacctcacct	gtgctcacia	gacccctctg	tgagtgtctg	gtccccagta	720
gggatggcgc	ccacaggggm	mwgtgacctc	ggccagtgct	caccacctc	gctcagcggc	780
tcccggggcc	cagcaccagc	tcagaataaa	gcgattccac	agcaaaaaaa	aaaaaaaaaa	840
actcgag						847

<210> 28  
 <211> 985  
 <212> DNA  
 <213> Homo sapiens

<400> 28						
ccacgcgtcc	ggcacagatg	agagcgctcc	gaagactgat	tcagggcagg	atcctgctcc	60
tgaccatctg	cgctgccggc	attggtggga	cttttcagtt	tggctataac	ctctctatca	120
tcaatgcccc	gaccttgac	attcaggaat	tcaccaatga	gacatggcag	gcgcgtactg	180
gagagccact	gcccgatcac	ctagtcctgc	ttatgtgggtc	cctcatcgtg	tctctgtatc	240
ccctgggagg	cctcttttga	gcactgcttg	caggtccctt	ggccatcacg	ctgggaaggga	300

agaagtccct	cctgggtgaat	aacatctttg	tggtgtcagc	agcaatcctg	tttggattca	360
gccgcaaacg	aggctccttt	gagatgatca	tgctgggaag	actgctcgtg	ggagtcaatg	420
caggtgtgag	catgaacatc	cagcccatgt	acctggggga	gagcgcccct	aaggagctcc	480
gaggagctgt	ggccatgagc	tcagccatct	ttacggctct	ggggatcgtg	atgggacagg	540
tggtcggact	cagcactacg	gcggtcccg	ggctccgggg	acttggcagg	ggagctggag	600
gagctggagg	aggagcgcg	tgctgccag	ggctgccgtg	cccggcgccc	atgggagctg	660
ttccagcatc	gggccctgag	gagacagggtg	acaagcctcg	tggttctggg	cagtgccatg	720
gagctctgcg	ggaatgactc	ggtgtacgcc	tacgcctcct	ccgtgttccg	gaaggcagga	780
gtgccggaag	cgaagatcca	gtacgcgatc	atcgggactg	ggagctgcga	gctgctcacg	840
gcggttggtta	gtgtgagtct	ggaggggtgcc	cttcctccac	cagccctgtg	gggagggacc	900
cccaggtcct	ctgcattaaa	ccagtttaca	ctccaaaaaa	aaaaaaaaaa	aaaaaaaaaa	960
aaaaaaaaaa	aaaaaaaaaa	aaaaa				985

<210> 29

<211> 914

<212> DNA

<213> Homo sapiens

<400> 29

ggcacgagct	aaggctaaga	aagaacactg	tgaaatthtc	attatataga	catttttaaaa	60
atactctgat	ctttgctgtg	ctggcttcta	tagtgthttat	ggggtggaca	actaagacat	120
ttagaattgc	aaaatgccaa	tcagattgga	tggaacgctg	ggttgacgat	gcattttgga	180
gcttcctttt	ttcgcttata	cttattgtaa	tcattgtttt	gtggagacca	tcagcaaaca	240
atcagagata	tgctttcatg	cccttaatat	atgattctga	tgatgaaatt	gaggaattca	300
tggttaacttc	tgaaaattta	accgaaggaa	taaaatttaag	agcctcaaaa	tcagtttcca	360
atggaacagc	taagcctgcc	acttctgaga	actttgatga	agatttgaag	tgggtagaag	420
aaaatattcc	ctcttcattc	acagatgtag	ctcttccagt	gttagtggat	tcagatgagg	480
aaatcatgac	cagatctgaa	atggctgaaa	aaatgttctc	ttcagaaaag	ataatgtgat	540
tggaaccctg	ataagaaatg	tagttaagcc	tgaaggacta	tccttcatca	agactgaaag	600
tgagctttga	tttgatattg	cctaaaaatt	tttattgtgt	tatcttggaa	gtctgtgtat	660
caaaatgaag	aattcagatg	gtaggagggt	ctatagtctc	tttaaagctg	actcttgagt	720
gtcagttgaa	tatccattaa	attggatttg	gaaataacct	gaggaaagta	ttatgataaa	780
gatctgcaca	gatgcctctt	agctgatagg	tggcaggcct	gtgggtttgt	gttctccctc	840
ttttctctgg	aacatatgac	aattccagat	taaagaaaaa	tgthtttttaa	taaaaaaaaa	900
aaaaaaaaaa	aaaaa					914

<210> 30

<211> 1183

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (7)

<223> n equals a,t,g, or c

<400> 30

cacntgnatt	catctatcag	aacaatgggtg	tgagcatgaa	gaggcacaga	caggtctcca	60
aaatagatgt	taggatttgg	gtgctacctg	acacagaagt	aggtctaacc	ctccaagtac	120
tggggatgat	aggataatca	atgagggtata	tatatatttg	tcattttgta	taaaatattg	180
tgaaaattga	aggaggacac	tcagtaaaca	tcctgggact	atttgtaagt	tatggcaaaa	240
ccagatgaga	gaaaagggac	agtccccctc	gtatcctcgt	tgtctcttag	taacatcaaa	300
ttgtagttaa	aaaaatttta	aactatgtac	aagctacaaa	atagcatctc	tttcatggta	360
tgthttgagt	tgtaatttta	gtttcttttc	tggttgattt	tgtggtagtc	agatgtgttg	420
gattgattcc	aactggacag	agtaagggaat	tccagcatcc	tcttcctgct	tgctcgtgtt	480
acccacaga	tcaaaccctc	aattctagtt	ggggatgctg	tctagcccca	caccatgact	540

gaagccttaa	gcaactgttg	gcctccatgt	gctttggatc	agcaacccca	gtgggtattct	600
accagagcat	tgtgggaaag	cagatgtata	gtcaggtccc	aayagcaa	tggtgggtgt	660
gagagttcta	aagtataggg	gtgaggggaag	agaaggatat	gaactcctct	gaccttaagc	720
cagcattcat	ttacttttta	tgtctactta	acaagagaac	ctggagaaaa	ctaccgtatt	780
caagagatta	atcaaaatca	gtgttttagc	caggcgatga	cagagaagca	ccattcctca	840
ccctccattc	ttgtaatgtc	tgtaataaat	ttcagtgcg	caggatggat	gaacccaaga	900
tccagtgaat	gattcagctg	ttccaagcct	tacattttcc	atcattcatc	atccattctc	960
attcagtgtg	acctcttgca	ctattgtggt	taattttatg	taaaaccagt	ttatgttttt	1020
ttttttttaa	tatgtgccta	tgtaataaag	tctacacact	ggctatctct	gtagagggtga	1080
ggttttgttt	ttagtgttct	tactgattat	atccttttct	gagctatgaa	aatgaattat	1140
taataaaaaa	tttttgaaca	aaaaaaaaaa	aaaaaaactc	gag		1183

<210> 31  
 <211> 1457  
 <212> DNA  
 <213> Homo sapiens

<400> 31						
ggcacgagcc	ggacttcaag	gtgattttac	aacgagatgc	tgctctccat	agggatgctc	60
atgctgtcag	ccacacaagt	ctacaccatc	ttgactgtcc	agctctttgc	attcttaaac	120
ctactgcctg	tagaagcaga	catttttagca	tataactttg	aaaatgcac	tcagacattt	180
gatgacctcc	ctgcaagatt	tggttataga	cttcacagctg	aagggtttaa	gggttttttg	240
attaactcaa	aaccagagaa	tgctgtgtaa	cccatagtgc	ctccaccagt	aaaagacaat	300
tcactctggca	ctttcatcgt	gttaattaga	agacttgatt	gtaattttga	tataaagggt	360
ttaaatgcac	agagagcagg	atacaaggca	gccatagtgc	acaatgttga	ttctgatgac	420
ctcattagca	tgggatccaa	cgacattgag	gtactaaaga	aaattgacat	tccatctgtc	480
tttattgggtg	aatcatcagc	taattctctg	aaagatgaat	tcacatatga	aaaagggggc	540
caccttatct	tagttccaga	athtagtctt	cctttggaat	actaccta	tcccttcctt	600
atcatagtgg	gcactctgtc	catcttgata	gtcattttca	tgatcacaaa	atttgtccag	660
gatagacata	gagctagaag	aaacagactt	cgtaaagatc	aacttaagaa	acttcctgta	720
cataaattca	agaaaggaga	tgagtatgat	gtatgtgcca	tttgtttgga	tgagtatgaa	780
gatggagaca	aactcagaat	ccttcctgtg	tcccatgctt	atcactgcaa	gtgtgtagac	840
ccttggctaa	ctaaaaccaa	aaaaacctgt	ccagtgtgca	agcaaaaagt	tgttccttct	900
caaggcgatt	cagactctga	cacagacagt	agtcaagaag	aaaatgaagt	gacagaacat	960
acccctttac	tgagaccttt	agcttctgtc	agtgcccagt	catttggggc	tttatcggaa	1020
tcccgctcac	atcagaacat	gacagaatct	tcagactatg	aggaagacga	caatgaagat	1080
actgacagta	gtgatgcaga	aaatgaaatt	aatgaacatg	atgtcgtggg	ccagttgcag	1140
cctaattggtg	aacgggatta	caacatagca	aatactgttt	gactttcaga	agatgattgg	1200
tttattttccc	tttaaaatga	ttaggtatat	actgtaattt	gattttttgc	tcccttcaaa	1260
gatttctgta	gaaataactt	attttttagt	attctacagt	ttaatcaaat	tactgaaaca	1320
ggacttttga	tctggtattt	atctgccaag	aatatacttc	attcactaat	aatagactgg	1380
tgctgttaact	caagcatcaa	ttcagctctt	cctttggaat	gaaagtatag	ccaaaacata	1440
aaaaaaaaaa	aaaaaaa					1457

<210> 32  
 <211> 795  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (791)  
 <223> n equals a,t,g, or c

<400> 32						
ggcacagtgc	agcatctacc	taatccaggt	gatctttggt	gctgtggacc	tgcttgccaa	60
gcttgtgggc	ttccttgtca	tcaactccct	gggtcgccgg	cctgcccaga	tggtgtcact	120
gctgctggca	ggcatctgca	tctgtctcaa	tggggtgata	ccccaggacc	agtccattgt	180
ccgaacctct	cttgtctgtc	tggggaaggg	ttgtctggct	gcctccttca	actgcatctt	240
cctgtatact	gggaactgta	tcccacaatg	atccggcaga	caggcatggg	aatgggcagc	300
accatggccc	gagtgggcag	catcgtgagc	ccactggtga	gcatgactgc	cgagctctac	360



ccctccatgc	ctctcttcat	ctacggtgct	gttcctgtgg	ccgccagcgc	tgctactgtc	420
ctcctgccag	agaccctggg	ccagccactg	ccagacacgg	tgcaggacct	ggagagcagg	480
aaagggaaac	agacgcgaca	gcaacaagag	caccagaagt	atatgggtccc	actgcaggcc	540
tcagcacaag	agaagaatgg	actctgagga	ctgagaaggg	gccttacaga	accctaaagg	600
gaggggaagg	cctacagggtc	tccggccacc	cacacaagga	ggaggaagag	gaaatggtga	660
cccaagtgtg	ggggttgtgg	ttcaggaaag	catcttccca	gggggtccacc	tccctttata	720
aacccccacca	gaaccacatc	attaaaaggt	ttgactgcm	aaaaaaaaa	aaaaaaaaa	780
aactcgaggg	ngggc					795

<210> 33  
 <211> 2656  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (2652)  
 <223> n equals a,t,g, or c

<400> 33						
gatgagtgcc	tagaagctgc	aatgattgaa	ggagaaattg	agtctttaca	ttcagagaat	60
tcaggaaaat	caggccaaga	gcattgggtt	actgaattac	cacctgtgtt	aacatttgaa	120
ttgtcaagat	ttgaatttaa	tcaggcattg	ggaagaccag	aaaaaattca	caacaaatta	180
gaatttcccc	aagttttata	tttggacaga	tacatgcaca	gaaacagaga	aataacaaga	240
attaagaggg	aagagatcaa	gagactgaaa	gattacctca	cggtattaca	acaaaggcta	300
gaaagatatt	taagctatgg	ttccgggtccc	aaacgattcc	ccttggtaga	tgttcttcag	360
tatgcattgg	aatttgcctc	aagtaaacct	gtttgcactt	ctcctgttga	cgatattgac	420
gctagtcccc	cacctagtgg	ttccatacca	tcacagacat	taccaagcac	aacagaacaa	480
cagggagccc	tatcttcaga	actgccaaagc	acatcacctt	catcagttgc	tgccatttca	540
tcgagatcag	taatacacaa	accattttact	cagtccccgga	tacctccaga	tttgcccatg	600
catccggcac	caaggcacat	aacggaggaa	gaactttctg	tgctggaaag	ttgtttacat	660
cgctggagga	cagaaataga	aaatgacacc	agagatttgc	aggaaagcat	atccagaatc	720
catcgaacaa	ttgaattaat	gtactctgac	aaatctatga	tacaagttcc	ttatcgatta	780
catgccgttt	tagttcacga	aggccaagct	aatgctgggc	actactgggc	atataattttt	840
gatcatcgtg	aaagcagatg	gatgaagtac	aatgatattg	ctgtgacaaa	atcatcatgg	900
gaagagctag	tgagggactc	ttttgggtgg	tatagaaatg	ccagtgcata	ctgtttaatg	960
tacataaatg	ataaggcaca	gttcctaata	caagaggagt	ttaataaaga	aactgggcag	1020
ccccttggtg	gtatagaaac	attaccaccg	gatttgagag	attttggtga	ggaagacaac	1080
caacgatttg	aaaaagaact	agaagaatgg	gatgcacaac	ttgcccagaa	agctttgcag	1140
gaaaagcttt	tagcgtctca	gaaattgaga	gagtcagaga	cttctgtgac	aacagcacaa	1200
gcagcaggag	accagaata	tctagagcag	ccatcaagaa	gtgatttctc	aaagcacttg	1260
aaagaagaaa	ctattcaaat	aattaccaag	gcatcacatg	agcatgaaga	taaaagtcct	1320
gaaacagttt	tgcagtcggc	aattaagttg	gaatatgcaa	ggttggttaa	gttggcccaa	1380
gaagacaccc	caccagaaac	cgattatcgt	ttacatcatg	tagtgggtcta	ctttatccag	1440
aaccaggcac	caaagaaaat	tattgagaaa	acattactag	aacaatttgg	agatagaaat	1500
ttgagttttg	atgaaagggtg	tcacaacata	atgaaagttg	ctcaagccaa	actggaaatg	1560
ataaaacctg	aagaagtaaa	cttggaggaa	tatgaggagt	ggcatcagga	ttataggaaa	1620
ttcagggaaa	caactatgta	tctcataatt	gggctagaaa	attttcaaag	agaaagtatt	1680
atagatttct	tgtgttctct	catctgtgct	tatcagaata	acaaagaact	cttgtctaaa	1740
ggcttatata	gaggacatga	tgaagaattg	atatcacatt	atagaagaga	atgtttgcta	1800
aaattaaatg	agcaagccgc	agaactcttc	gaatctggag	aggatcgaga	agtaaacaat	1860
ggtttgatta	tcatgaatga	gtttattgtc	ccatttttgc	cattattact	ggtggatgaa	1920
atggaagaaa	aggatatact	agctgtagaa	gatatgagaa	atcgatggtg	ttcctacctt	1980
ggtcaagaaa	tgggaaccaca	cctccaagaa	aagctgacag	attttttgcc	aaaactgctt	2040
gattgttcta	tggagattaa	aagtttccat	gagccaccga	agttaccttc	atattccacg	2100
catgaactct	gtgagcgatt	tgcccgaatc	atgttgtccc	tcagtcgaac	tcctgtgat	2160
ggaagataaa	ctgcacactt	tccctgaaca	cactgtataa	actcttttta	gttcttaacc	2220
cttgcccttc	tgtcacaggg	tttgcttgtt	gctgctatag	tttttaactt	ttttttatatt	2280
taataacygc	aaargacaaa	atgactatac	agacttttagt	cagactgcag	acaataaagc	2340
tgaaaatcgc	atggcgctca	gacattttta	ccggaactga	tgtataatca	caaatactaat	2400
tgattttatt	atggcaaaac	tatgcttttt	ccaccttctt	gttgcgat	tacttttgctt	2460

ttatcttttc	tttctcaaca	gctttccatt	cagtctggat	ccttccatga	ctacagccat	2520
ttaagtgttc	agcactgtgt	acgatacata	atatttggta	gcttgtaa	gaaataaaga	2580
ataaagtttt	atztatggct	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	2640
cgaggggggg	cncaaa					2656

<210> 34  
 <211> 2566  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (2553)  
 <223> n equals a,t,g, or c

<400> 34						
gcaaatagca	acttcagtac	atcataatat	aaatagaaaa	aaaagatcag	tgcttagatt	60
gttaatgttt	tgtttttatt	tgaattat	tactaacttg	tttttgttt	taacctgttc	120
tcgctcagag	tccctctcct	ccccgacagg	accctattca	ggtttccct	tcttaaagtc	180
tccccagtg	aggaactctc	tcaacaaggg	cccactcctg	gtgcagtact	atagcttttc	240
atcccacctc	agagtcccc	gcaaaaagaa	acaagtgatc	agagtaccag	tcaggggtacc	300
tcctaaaagc	ccagcgatgt	cccctccatc	cagtccaagg	tttcactttt	tcaccttttc	360
tggtcctttc	cccaacagct	attaatggta	ttatccattc	aggtccttct	tcacccagg	420
ccttggtgga	ccamccttaa	tcattccagt	gtactgcccc	ctcttaggat	ataccaccam	480
cgstcacaca	ggatctccac	ccagaaaaca	tgacatctgg	gggtcttctc	cagtccctgt	540
gcatgggtatt	tcttacaac	tttctacctc	ccactggcta	atagctttat	tcaagtasaa	600
ttacacgcc	taaaatttac	tcattttatt	tttttat	tattaagtta	ggttgtgttc	660
aggatttact	ctttttaagt	ctgcaattca	ctttttttt	ggtaaattta	gagttgtaca	720
gtcatcacca	tcattccaatt	ttagcacatt	tccatcacct	caaaaagatc	cctcatgccc	780
atgtgtgtgt	attccacatt	ataaccttcc	acccctggca	accactaatc	tactttgtgt	840
ctgtatarat	tggctttttc	tgcataattc	atataaaaa	ggaacatata	atatttggtc	900
ttaagtattt	ttgaaacata	taattttgtt	gtggaaatag	tagttgattt	tatctatgtc	960
tttatcaggc	ctttctctgt	attgaatttt	cacattgtca	ataccactca	gaaacagtgg	1020
tyatccctac	tgcagcaagt	tcattgaata	ctgttggcac	tggaatttat	ccctgctgta	1080
acaaaaaggt	yctycggttt	gactctactc	agcttacaaa	gggctgtaaa	rtgagggacc	1140
acatggttac	mcttcgtgat	caaggtgaag	gsggagattt	gccgtcctgt	cccactgcta	1200
gaatgttgga	cgatttgcac	aagtacagag	atgtcattgt	tgtgcctttt	tcaaaagata	1260
cagttagtga	tggtggggtt	ggcctctgtg	atgaaaaggg	tatagaatgt	gatgttttac	1320
tggagccaaa	tacaccatgg	gggtcccaaaa	ctggggagct	caatgctttc	ttgtcattga	1380
aaaactggac	tctacaactg	aaacaacagt	cactgttttc	agaagaagaa	gaatatacca	1440
ctggatctga	gggtcactga	gatgaagttg	gagatgaaga	agaagtatcc	aagaaacaaa	1500
ggaaaaagga	gaagccaaag	aagttcacta	gacmaccaaa	aaagcaggta	tcttcacctt	1560
gtgcccagag	gaaagaaaag	gcattggaga	aggtaactct	gaattatctg	ktgktaaagt	1620
catatggaaa	aataagcatg	tgagtatagc	cagaaaaaaa	taaaaagagt	aatgaagaca	1680
catggaatgc	tagcaatgta	aaaatgaagt	tttttataga	ctgagattaa	agatctctaa	1740
gatataattga	caaatgagaa	aaggaagggtg	cagaaacgta	tagtgggtata	gtatgtctacc	1800
atgtgtgtaa	agtagatggg	ggaaatatat	aaataacttc	cttgtatatg	cataaaatgt	1860
ttctggaagg	ctacataaga	actcgataaa	attggttgcc	tctcaggaag	ggaactgaac	1920
gtgtaaggga	cagaagtggg	agtcttttca	ttatatgtgc	cattatacct	tttgaatttt	1980
aaaccaatat	tattttattca	aaaaattaaa	aatagtcttt	taaattaaaa	ataaatcata	2040
ttttatgata	tttaaaaaata	attcttattt	ctccatgcct	ttgaagggaag	gggtaaaaaa	2100
gccaggtagg	aataagagaa	tagtaataac	caccattggc	taaaagaaaa	actgtgaatt	2160
tcaaaaatgt	gtgatagggt	gagtcctggg	taagatccac	agaattacat	tggaacacatt	2220
gtacattcat	ctttgtgtta	agtagcacag	gcataataagt	gggttaattc	taaaaaaaa	2280
ttgtatcagc	tggtcttgag	cttttgacct	cgtgatctgc	ccgctcagc	ctcctaaagt	2340
actgggatta	taggcgtgag	ccacaatgcc	tggccacatt	tatgtatttt	tttatattct	2400
gtatcagttt	gcctgtttat	tcacgtaaaa	gttttccacc	atgtcttatt	atccatgggtc	2460
catagggtcat	ctataacaca	tataataaag	tacatcattg	ctgaaaaaaa	aaaaaaaaaa	2520
actcgagggg	gggtcccgta	cccaattctc	ctnacatgca	tcgtat		2566

<210> 35

<211> 1668  
 <212> DNA  
 <213> Homo sapiens

<400> 35  
 aatttcgaac acccataaaa ttgtaaagaa ttgtacagta cattttaaca tattkgcttg 60  
 ttacaaycta tacatttwaw gttttttaac cacttcaaag taagtttcag acaccaacac 120  
 atttttttaa tgatccctac cattttttta atgatcccta ccaaaatgga aggctggtat 180  
 cccaagggtt tgttccattt ctcaattcta gtctgtgaaa ttgargtctg atgaccactc 240  
 ttaagrsgggc tgttcattag ggkgcgggct gggcattatg agtgtgtttt tcatgagkca 300  
 gtggaaggag gggcttggtg tgagcagtg atgagaaaaa cggcttggtt ttgcttcttt 360  
 ttccagctct gtggccttgg tcaggttacg tctcttcagt atcgtaactg taatgtggag 420  
 ataaagcctt cattagttag gggcacacac cgcagtatc cttaaagtcatt cttgatgaca 480  
 agtgaatgca aggcagctgg taccttttcag gtatgtatgt aattcaggta gtattgttca 540  
 gttttttttt ttccttctcat gttctaagac cagctgagag gcaaagttgt accactgagc 600  
 tctagtgtgt gttacctaaa aagsccttgt tttaaatttc tgtgatacct aagaatttca 660  
 aatctgggtt gtcattggatt ctttattctt tttttctccc ttaaaaagtt acattttaga 720  
 tgaaatcccc tttttaaata tgggcaaagc aataattcta catcatttct ccccttccct 780  
 tccacttggt tagactaaga tatgttagag agggaaaggg tcgttggttt agtaaatact 840  
 attgctgttg acatgttaat actattgctg ttgacatgtt tactgatggg ctgtgttcca 900  
 taattttgtt ttaggtcttt tgtttgaaac agtttactgt ttttatcagt tttggtccct 960  
 aatttttctt aacctacagt tttctctga gtacatatgg tttcattgtt tgatctactt 1020  
 tctatctatc tgaatatgaa cttctaggat catgtttatt ctagtagatg atgacttaaa 1080  
 gcctgcagta taggaggagc aacgtcaact actgcatgtg caataacaag cttgaaggga 1140  
 agctaaatgt ttgttacaaa ttaagacag tattttaatg ccgtttgcat ttttctaaga 1200  
 attttctata aagctaattc tgktattttt tgtctctaaa ttaggggaact gtccagggtt 1260  
 attgctgccg ggagactaca ctgcaaaata gataaagtga atgaaatagt agaaaccaac 1320  
 aggtactctc atttctcaga ataagggggc attcctaaat tttaaaagta gggcaactat 1380  
 tgkcatggaa taatgtgact ggtaaataat tcattttttt ttgaatttat ttatagacct 1440  
 gatagcaaga actggcagta ccaagaaact atcaagaaag gagatctgct actaaacaga 1500  
 gttcaaaaac tttccagagt aattaatatg taaagccatg taactaaca aggatttgct 1560  
 ttagagataa ttatttggaa tttttatagc ttacttcaca atgtgccag gtcagctgta 1620  
 taaaataaat actgcattgt tgttaaaaaa aaaaaaaaaa aactcgta 1668

<210> 36  
 <211> 983  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
 ccgcccgcct gccggccccg gtccggaatt cccgggtcga cccacgcgtc cggggcaagt 60  
 gagegagctc ctctctcacc gggctgacta gcctctcctt tccctgtccc cctccatcgc 120  
 tgctctgcag gaagccagcc cccagggcca gtcccgaggs ggctgatccg catctacagc 180  
 atgagggttct gcccctattc tcacaggacc cgcctcgtcc tcaaggccaa agacatcaga 240  
 catgaagtgg tcaacattaa cctgagaaac aagcctgaat ggtactatac aaagcacct 300  
 tttggccaca ttctgtcct ggagaccagc caatgtcaac tgatctatga atctgttatt 360  
 gcttgtagt acctggatga tgcttatcca ggaaggaagc tgtttccata tgaccttat 420  
 gaacgagctc gccaaaagat gttattggag ctattttgta aggtcccaca tttgaccaag 480  
 gagtgcctgg tagcgttgag atgtgggaga gaatgacta atctgaaggc agcctgctg 540  
 caggaattca gcaacctgga agagattctt gagtatcaga acaccacctt ctttgggtgga 600  
 acctgtatat ccatgattga ttacctctc tggccctggg ttgagcggct ggatgtgtat 660  
 gggatactgg actgtgtgag ccacackcca gcctgcccgt ctggatatca gccatgaagt 720  
 gggacccca agtctgtgct cttctcatgg ataagagcat tttccagggc ttttgaatc 780  
 tctatttttc gaacaacctt aatgcctttg actttgggct gtgctgagtc tcaactgtcca 840  
 ccccttcgct gtccagaatt cccagcttg ttgggagctc acgtcacggc ttgtcttggg 900  
 aaccaatccg tctctctttt ttttctttga agttcccaat aaaatgaaaa caggaaaaaa 960  
 aaaaaaaaaa aaagggcggc cgc 983

<210> 37  
 <211> 2351  
 <212> DNA

<213> Homo sapiens

<400> 37

ccacgcgtcc	ggcagaagca	gcagcagcag	aagacacagc	gccgggccag	gagggcggtc	60
gagctgttcg	taaagtcgcc	cgacagcttt	ttctccgtag	tatgcgagtt	gacaaaaacag	120
ccagagaaca	gggctcccca	ttacaatctt	ttcgagatct	tttcccttgc	taaccggatc	180
tgatttgtgc	gaaaacatgc	cttgcaactg	tacctggagg	aactggagac	agtggattcg	240
acctttagta	gcggtcatct	acctgggtgc	aatagtgggt	gcggttcccc	tatgcgtgtg	300
ggaattacag	aaactggagg	ttggaataca	caccaaggct	tggtttattg	ctggaatctt	360
tttgctgtga	ctattcctat	atcactgtgg	gtgatattgc	aacacttagt	gcattatata	420
caacctgaac	tacaaaaacc	aataataagg	attctttggg	atggtaccta	tttacagttt	480
tagatagttg	gatagctttg	aaatatcccc	gaattgcaat	atatgtggat	acctgcagag	540
aatgctatga	agcttatgta	atttacaact	ttatgggatt	ccttaccaat	tatctaacta	600
accggtatcc	aaatctggta	ttaatccttg	aagccaaaga	tcaacagaaa	catttccctc	660
ctttatgttg	ctgtccacca	tgggctatgg	gagaagtatt	gctgtttagg	tgcaaaactaa	720
gtgtattaca	gtacacagtt	gtcagacctt	tcaccaccat	cgttgcttta	atctgtgagc	780
tgcttggtat	atatgacgaa	gggaacttta	gcttttcaaa	tgcttggaact	tattttgggtta	840
taataaaca	catgtcacag	ttgtttgcca	tgtattgtct	cctgctcttt	tataaagtac	900
taaaagaaga	actgagccca	atccaacctg	ttggcaaatt	tctttgtgta	aagctgggtg	960
tttttggttc	tttttgattt	ggcgtttacc	ttttcctaac	atataggcaa	gcagtagtta	1020
ttgctttgtt	ggtaaaagt	ggcgttatatt	ctgaaaagca	tacgtgggaa	tggcaaaactg	1080
tagaagctgt	ggccaccgga	ctccaggatt	ttattatctg	tattgagatg	ttcctcgctg	1140
ccattgctca	tcattacaca	ttctcatata	aacctatagt	ccaagaagca	gaagagggtc	1200
catgctttga	ttcctttctt	gccatgtggg	atgtctcaga	tattagagat	gatatttctg	1260
aacaagtaag	gcatgttggg	cggacagtca	ggggacatcc	caggaaaaaa	ttgtttcccg	1320
aggatcaaga	tcaaaatgaa	catacaagtt	tattatcatc	atcatcaca	gatgcaattt	1380
ccattgcttc	ttctatgcca	ccttcaccca	tgggtcacta	ccaagggttt	ggacacactg	1440
tgactcccca	gactacacct	accacagcta	agatatctga	tgaaatcctt	agtgatacta	1500
taggagagaa	aaaagaacct	tcagataaat	ccgtggattc	ctgaacagta	tggaaaagca	1560
aactgtgcaa	ctactacatt	atatcattac	ctggtatccc	atggattttg	tgcttgggac	1620
agaccataaa	tgatggaaaa	tgtcaacaca	aaaatagctg	aaagccagggt	acaactactg	1680
catttatata	tgtaagtttt	gtatatcaaa	aataattggg	ctaaatttcc	tagacttaga	1740
cttgatttct	taacattagg	gtatcgcata	ctcaaattgg	agacaatgac	cccaactaaa	1800
tcttcctgat	gttacactgc	tttatcaaga	ggatggactt	tttttttttt	gagacagaca	1860
gagtcttgct	ctgtcaccca	ggctggagtg	cagtggcgca	atctcgggtc	actgcaagct	1920
ctgcctccca	agttcatgcc	attctcctgc	ctcagccctc	ccaagtagct	gggactacag	1980
gcacctgcca	ccatgccccag	ctaatttttt	ttttttcagt	agagacaggg	tctcaccatg	2040
ttagccagga	tggctcttgat	ctgacctcgt	gatccgccga	cctcggcctc	ccaaagtgtc	2100
ggaattacag	gcgtgagcca	ctgcgcctgg	ccaagaatgg	acatttttta	aaaaaacatc	2160
agtacttctt	accactgctg	catgagtata	atgctccgga	attatcagaa	agcataatgc	2220
agaaatacga	attagtggaa	cttaatcatg	tgccatataa	gcttacctaa	caaacagtta	2280
tatccctatt	cctcaactga	atgtctttca	ataaataaga	atztatcatt	taaaaaaaaa	2340
aaaaaaaaaa	a					2351

<210> 38

<211> 1534

<212> DNA

<213> Homo sapiens

<400> 38

ccacgcgtcc	gcccacgcgt	ccggaaatac	taaaaattaa	atgaaaagtt	gtgatgcttg	60
aagtgtctgat	tagtattcgg	actaaagtat	atgaatgaat	aacaattttt	tctctgcaga	120
gactgcagca	tgaaatctca	tgctacattg	actggtggca	gtggttttta	tttcatagaa	180
ctttcttttt	tgttggttgg	atctgtgctg	ttggtgctgg	ttctgctttg	gcagttccca	240
aagtccctta	caggacaaga	atgatgagtg	gggatataaa	tctcaattcc	agcagctgct	300
cactcacagg	tgctcgggtg	gaagaattgg	gtcttggtga	gcctgtagct	tctctctata	360
tactgtggg	agatagtgcc	tgtgagtgcc	ttgcttgata	tccagggtgct	agggctaagg	420
acctctttgt	ggaatagcca	tctttgcttg	aggtctgtgc	aattgtgtat	gcctgcagtg	480
cagtgcctgg	taaggctttc	aaactgtggg	caagaatgta	acaatgcctg	tcactcgtga	540
agagacacag	tcggtgaggt	gagtatggat	tatgccaagg	aaagttttct	gggtcagaga	600
ctttatcctg	ctgcaggaat	taactccatt	gatcaaaaac	agccttaatt	gggatggggc	660

tcgggggcaa	atttcatatg	tgattggcag	gagtctaaac	tgtatagctt	ttctggaggg	720
catttttgga	gtggggatta	aagtgtcaaa	tgtgcatact	ctgtgactgg	acattttcac	780
ttcacagaat	ttatcctaag	gaaagcattg	tacaagtata	cacaaaaggg	tgttcctccg	840
caccataatg	tttagtggtg	ccatcacctg	gggctttatt	aaaaaaggaa	aagttacata	900
aattccagta	aaaccatata	gtggaatatt	ataaagctgc	tgaagaagat	gaagtcaact	960
tctatgtact	attatggaat	gatggtaaag	aaattatgta	caaaagtcac	agatcagcat	1020
gaatagtgtg	atcctatttt	caatatatat	gtgtgtattg	agtgcataatt	atgtaaagggt	1080
ttatatgcat	taatttttggg	aggaagaata	tcaaattgcta	atagcgatca	tcaaattgcta	1140
atagtgatta	tgtaaagacc	ctcatttttct	acttctact	tctctgtatt	gtttgaactg	1200
tttataaagg	taaaaccata	gtaatttggg	ctgggtgctg	tagctcatgc	ctgtaatccc	1260
agcacttttg	gaggccaagt	ggggtggata	tcttgagggtc	agttgtttta	gatgagcctg	1320
accaacatgg	tgaaccctg	tctctactaa	aaatacaaaa	attgggttggg	cttgatgggtg	1380
tgcacctgtg	gtcctaacta	cttgggaggc	tgagggtggga	gaattgcttg	aaccaggag	1440
gtggagggtcg	cagtgagctg	agattgcacc	actgcactcc	agcctggatg	atagagcaag	1500
atttctctctc	aaaaaaaaata	aaaaaaaaaaa	aaaa			1534

<210> 39

<211> 1182

<212> DNA

<213> Homo sapiens

<400> 39

agattagagt	gataattctt	gttctttgtg	tattcattta	tacagccctg	ctccatggac	60
tactcatggt	ataataaagg	gatagagaag	ggcatgatga	cgatgtgcgt	tcccagtggt	120
ctagctgtgg	ctctaccctt	ttttctctca	cttaagaaaa	cttcccagaa	acccgagaag	180
tgagagcatt	ttccccagg	gaaaaccttg	aattgtgtac	atgtaaattcc	atgggaatct	240
tcagcacttt	attattagca	tcagattctt	tgttgaactt	aatattattc	ttctttattt	300
tcgctttctc	agtgaagctt	tcttctctcat	cgtttccaag	ttgttgtgtt	tcggtaayck	360
gattatctgt	cattycagag	tccckgtcct	cccackgagc	cacatgcgca	cacacatctc	420
tgtcaggcac	ccctgtcatg	taaggcacgt	tgggtctgcc	agagcggcac	cccttgttcc	480
aactttcagg	tttaatgctt	gagaacattt	gaaggctggt	gtctggaaaa	gataagtgtt	540
tttatatttc	tttgaatttt	aggagtgtgc	taccacaaca	aataaactag	atcacacttt	600
ttaagttcaa	tacttattat	cctcattctg	tggaaaaaat	atatttttcta	ttaatcatgt	660
acataatagt	actaattatg	ggccactttg	gctgaacaca	gttttatgct	taggcttaca	720
taattaagggt	tgtaatgtta	tttctggatc	tttgaggcat	tagtagagat	cactgatgaa	780
gtaaaactgac	aaacataact	ccttttcttt	ggaaaagatg	gatgctgtct	gctaaactaa	840
tcaagttata	gagccttagg	ccgggtgtgt	cggctcatgc	ctgtgggtccc	ggcacttttg	900
gaggccaagg	tgggcggatc	atgaggtcag	gagtttgaga	tcatcctggc	caacatgggtg	960
aaacccccatc	tctactaaac	acacacacac	acacacacac	acacacacac	acacacacac	1020
gccgggcatg	gtgggtgggca	tctgtgtgtc	cggctactcg	ggaggctgag	acaggagtgt	1080
cacttcaacc	caagaggcag	aggttgcggt	gagccaagat	catgccattg	cactccagcc	1140
tggaagcctg	ggcaatagag	caasactcca	tctcaaaaaa	aa		1182

<210> 40

<211> 1841

<212> DNA

<213> Homo sapiens

<400> 40

cgaccacgc	gtccgcacct	gtccctctctg	tgagctctgt	actgttctcc	gtccctgcaa	60
atagacatga	tgtcaccatc	tggaatcatt	gtgtacgtct	ctgctactcc	tcacatcctg	120
ctttgtattt	taatcacttt	catgcttgcc	atcccttcta	ttcataatgg	cagagtttgt	180
gtttttattca	tttttttagca	tttggttagca	tttagcacta	atctgtccaa	ataatgaatg	240
ctcaataaac	atttgtctaa	ttaaactaaa	acaggagggtc	aggtcatttc	accttttttc	300
ccatcacgga	ctgcccttaa	gtctttccct	gaacagaaat	tagcaaatg	aagtaaggaa	360
ccgagggtgt	agtagcacca	cggactcttc	cactttttca	ccttggcaat	gggaaacatc	420
ctggggggcga	agatggcaga	gggagcacat	gggaaccggg	caaattgtgac	taagagacag	480
cgagtgggtga	caaacctcca	cagggtcaca	gatgttggac	atgataaatt	ttgcttcatg	540
aaaaattttg	cttcatgaaa	atgcattatg	cattactttt	acatgaatag	ctaaattgaa	600
cggtagaata	cattgtccca	cttgggttaa	tgtgataaaa	ggagattagt	ggacttgaat	660
ttgtaatcat	ggatgcacac	cacaagggaa	aagcacttgt	tccttctgcc	tcgtcactag	720

tatcagtttg	tggttggttac	ttccaataga	aatgcttcga	aagatgaccc	aagggctcca	780
acaatgacct	tctgaactcc	gttttactga	ctgttttaaaa	taatcctgca	gcttcagatg	840
tattgacttg	gatagaagcc	aacataaatc	agacagtgtc	cctgaacaaa	actgaatact	900
tcacactcag	tgccctggtag	cctgtgtgtt	ggagggattg	gcggcagctt	ctctgctcct	960
ggtttgtgct	gttttcatgc	agagatagca	acagtaacac	gactaagtga	ccatgggctag	1020
ggaaacagcc	tcacattggc	aagtgtgaaa	ggagccaaaa	tatggccagg	catgggtggct	1080
cacgcctgta	atcccagcac	tttgggagga	tgaggtgggt	ggatcatttg	aggtcaggag	1140
ttcgagacca	gcctggccaa	catggtgaaa	ccccatctct	actaaaactg	caaaaattgg	1200
ctgggcgtgg	tggtgggtgc	ctgtagtctc	agctactcag	gaggctgaga	caggagaatc	1260
acttgaaccc	gggagatgga	ggttgacagt	agccaagatt	gcaccactgt	actccagcct	1320
gggtaacaga	gtaagactct	gtctcaaaaa	aaaaaaaaaa	aaaaaaaggg	ggagccaaac	1380
tgtgttctat	agatgtgcac	ctgagtgtag	gaagaaattt	aatatttagg	gagaaaaatg	1440
ttagatatat	atttttacat	tccttgtgaa	cactggcatt	aatggatagg	gaaccttggg	1500
tttcggggct	ctctggggtt	tggcattgaa	aatctcttgg	ctgggtgcga	tgctcacgcc	1560
tgtaatccca	gcactttggg	aggccgaggt	gggcagatca	tgagttcagg	agttcaagac	1620
cagcctgacc	aacatggtga	aaccccatct	ctactaaaaa	taaaaaaaat	attagccagg	1680
catggtggcg	ggcgccctgta	atcccagcta	ctcaggaggc	tgaggcagga	gaatcacttg	1740
aaccgaggag	gcggagggtg	cagtgcagctg	agattgcagc	attgcatccc	agcctgggtg	1800
acagagcgag	actccatctc	aaaaaaaaaa	aaaaaaaaaa	a		1841

<210> 41  
 <211> 1197  
 <212> DNA  
 <213> Homo sapiens

<400> 41						
cccacgcgtc	cgattgggaa	aaggctgtcg	ttaatcactt	ttagcagcag	aaatttttta	60
ttttgtgtga	tgctactgtt	ccatgttgaa	gagtcattgga	gatgtacaaa	atgtattgac	120
cttatttgtt	actgtgctta	gtgatgtgtc	atattttgcag	caaatacaaa	aaaagttaag	180
aatgcatgtc	cattgtttttg	ctatacatgt	tttattttcat	ttctgctcca	caattttcagc	240
agatgctctt	tcattctgta	tatttttgcta	tggaccacag	accctcattg	acatgtattg	300
gaactcctaa	gaccagtgca	gtgctccaag	tatctatgaa	tcaaatggca	gtgttcacat	360
gcttttctcc	cataacttat	aaagcagaag	gtagttttct	ttcccatcac	aatagccatt	420
cttttcctta	tttttcatag	ttatttttctt	attaagttat	ctgtaaaaat	aatgcatctc	480
tgctcatctgc	tagcaggcca	ttgttcgagg	ttaaaataca	aattaagaag	aagcaagcaa	540
ataaatcaga	tctggaaacg	aagttagaga	tttttgcaca	aacataatac	ttacaacagt	600
ttcataaaag	ccaattttatt	atggctactc	ttaacaattc	cttttaaagtt	aaaaactact	660
ataggcgatt	tgtctattat	tcactctttg	ttttttataat	tttgtttaggt	ttctttttatt	720
caagttactt	tatgtaaatt	acttggagtt	ttattttactg	aaaatcagat	ttcatcattt	780
ctccccaggt	tttctaactg	gcttttgattt	ttgtttctta	gcttgattgc	ttgctagttt	840
ttaaattgagg	taaaatatag	attcggtgag	atgcacagat	cttgagtgtg	cagttcaatt	900
gatttttgata	aatacaccca	tgtaactgcc	agctgaatca	agataaagac	cattctcatt	960
actccagacc	ttcctgtgtt	tcagtagctt	tgttcacatg	ttcggcagca	tgtgagacga	1020
agttacctaa	gccgtaggca	attttatgtg	attctgcata	gtagtcaata	tggtgataat	1080
gttacttttca	tcagaaggct	caaagtaatg	gacctgaaaa	gcaggaaaaa	gaaggggtta	1140
tccagaactt	caagagaact	ctctcaaaga	aagaaaagaa	ggaaaaaaa	aaaaaaa	1197

<210> 42  
 <211> 602  
 <212> DNA  
 <213> Homo sapiens

<400> 42						
aattcggcac	agkttgtgtt	tctmatgttc	caggtccggc	caggctggca	gctcctgctg	60
gtcatgtttt	cctcatgtgc	tgtttccaac	cagctcttgg	tctggtaccc	agcaactgcc	120
ttagcagaca	acaaacctgt	agcacctgac	cgacgaatca	gtgggcatgt	gggcatcatc	180
ttcagcatgt	cataactgga	aagcaaggga	ttgctggcta	cagyttcaga	agaccgaagc	240
gttcgtatct	gtaaggtggg	cgacctgcga	gtgcctgggg	gtcgggtgca	gaatattggg	300
cactgctttg	ggcacagcgc	ccgtgtgtgg	caggtcaagc	ttctagagaa	ttaccttatc	360
agtgcaggag	aggattgtgt	ctgcttgggtg	tggagccatg	aaggtgagat	cctccaggcc	420
tttcggggac	accaggatgt	gtacccggtt	gtagtaggag	ctgaaatcca	tgctgagctg	480

taccaggaac	ttgcatatct	agagacagag	actgagtcac	tggcccatct	ctttgctctt	540
gtccccaggc	cagaataaag	aatagagtgt	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	600
ag						602

<210> 43  
 <211> 2492  
 <212> DNA  
 <213> Homo sapiens

<400> 43						60
ccacgcgtcc	ggaggaagga	tgatgatgaa	ggaccgtaca	caccattcga	cacccccctcg	120
ggtaaaactgg	aaacagtga	atgggctgtc	acctggccgc	tgagtttcgt	cttatacttc	180
actgtaccca	actgcaacaa	gccgcgctgg	gagaaatggg	tcatgggtgac	gtttgcttcc	240
tccacgctgt	ggatcgcagc	cttctcctac	atgatgggtgt	ggatgggtcac	aatcattggg	300
tacaccctgg	ggattcctga	cgtcatcatg	ggggatcacc	ttcctggctg	ctgggaccag	360
cgtgcctgac	tgcattggcca	gcctcattgt	ggccagacaa	gggatggggg	acatggctgt	420
gtccaactcc	attgggagca	acgtgtttga	catcctgatt	ggcctcgggc	tccccctgggc	480
tctgcagacc	ctggctgtgg	attacggatc	ctacatccgg	ctgaatagca	gggggctgat	540
ctactccgta	ggcttgtctc	tggcctctgt	ttttgtcagc	gtgttcggcg	tccacctgaa	600
caagtggcag	ctggacaaga	agctgggctg	tgggtgcctc	ctcctgtatg	gtgtgttcct	660
gtgcttctcc	atcatgactg	agttcaacgt	gttcaccttt	gtgaacctgc	ccatgtgcgg	720
ggaccactga	gccgcggggt	gcccacagaa	gctcagctcc	ttcttttctg	tgcaatacga	780
gacccggcgg	caccccgagt	cacacaggcc	cctggggcca	cggcgctcgt	ctctcctgtg	840
ctgtcctcag	gcctccgctc	ctgttttggg	ggcccaggct	ctcccctgcc	ccatcctcgc	900
tccccacact	ccttgggtca	tgcccaccca	ccctttcctg	cctcctccgt	gtgaagacat	960
ccaacatcca	cgtgactttt	ccagctccat	ttttgaacag	tgactgagat	tctagaaaaa	1020
ctggctgcta	actggcctga	gccaggcaac	actgattcca	atccctcctc	cttttttaag	1080
ttattttgatg	gaagactcac	ctaattttgtg	acctgagact	gttgaagaaa	tagagaggag	1140
ggggcccgtt	gattacagag	agcattttggg	attttgtttg	gtttggagat	gatgcctagg	1200
ttactgggtt	tggggggatt	gttttctttt	gggggccttc	cccttttact	ccttttcttc	1260
cagagatcaa	gagcttctct	tgcattctct	tccactgggc	tctggattaa	tcaattaccc	1320
aaaggctgca	cctgccgtgt	tgtctgggct	tgcatcccag	atgtgttggg	gtatgcatgg	1380
atgtagtgtc	tttttagagga	gccactgggc	aaggccacca	agaacaaatg	catgacattt	1440
tatagccaag	gacgcctcac	taaagtctta	tgggcgtccc	ctgggggttg	gggggcacaa	1500
ggttttggag	gaagaagaca	acttccctca	ttccatcatc	accatctctt	tctcactagg	1560
ttctttctag	ttttcaaagc	aataagtcta	gcctgccttg	gacaaggggg	ccccagtta	1620
aacaaactac	ccatccatga	ggtgccaggc	agtcacaaaa	cagaagcttc	cccgaattgt	1680
agtccatgag	atgtgtctct	gttgtaaggc	atttgggggtg	acagggagtg	accagagggc	1740
caccactgct	tttcatgcag	gagttacaga	cactgggtttt	cttggaaaaa	ggagagaagc	1800
gcacttttga	cagacgtcgt	caattaagtc	ccaatttgcc	acttggtatt	gagtacactg	1860
gaccttgacc	actggctttt	gggcaaacgt	cttctcacgc	gggcgcttcc	gccaagccgg	1920
cccagctgca	ccctccctt	cctggaggga	tggccaggga	aggagaaaac	agagaactga	1980
cactttttgaa	accacagaat	gtgtaacatg	cagatcgctc	aagggcataa	gttattgtga	2040
acgttttttgc	caatcactgc	tcaacagccc	tgctagattt	tgtatgatgc	tgaattatta	2100
tgcagactaa	ttccaccag	ttgagacaca	ccatgcttgt	tcacttgtat	ttattgaaac	2160
tgtggattct	tgcccgctgt	gtcccttgta	tttactttta	gcactgatca	cttatcattc	2220
attcggtatg	gttttccctg	tcccttgta	acattctggt	atgaatttgt	aaaaataccc	2280
tactacaaat	tgggtgaatg	tttctgtctg	tgggtgcgaac	cagcattaac	ggatggggca	2340
cgtgcccac	tgaggaacag	gagaagaaat	ccccaatttg	ggctctcaga	gctaagacac	2400
acttattgat	tctgttgac	attttgcact	ggtttatggc	gattgttttc	ttggacggat	2460
agtgtaaaat	aaacttctct	gttctctaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2492
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			

<210> 44  
 <211> 2377  
 <212> DNA  
 <213> Homo sapiens

<400> 44						60
aggggacacga	gcctaggtgt	tgctgtccct	gctagtactc	cgggctgtgg	gggtcgggtgc	120
ggatattcag	tcatgaaatc	agggtaggga	cttctcccgc	agcgacgcgg	ctggcaagac	

tggtttgtgtt	goggggggccc	gacttcaagg	tgatttttaca	acgagatgct	gctctccata	180
gggatgctca	tgctgtcagc	cacacaagtc	tacaccatct	tgactgtcca	gctctttgca	240
ttcttaaacc	tactgcctgt	agaagcagac	attttagcat	ataactttga	aaatgcatct	300
cagacatttg	atgacctccc	tgcaagattt	ggttatagac	ttccagctga	agggttaaag	360
ggttttttga	ttaactcaaa	accagagaat	gcctgtgaac	ccatagtgcc	tccaccagta	420
aaagacaatt	catctgggca	ctttcatcgt	gttaattaga	agacttgatt	gtaattttga	480
tataaagggt	ttaaattgcac	agagagcagg	atacaaggca	gccatagttc	acaatgttga	540
ttctgatgac	ctcattagca	tgggatccaa	cgacattgag	gtactaaaga	aaattgacat	600
tccatctgtc	tttattgggt	aatcatcagc	taattctctg	aaagatgaat	tcacatatga	660
aaaagggggc	caccttatct	tagttccaga	atttagtctt	cctttggaat	actacctaat	720
tcccttcctt	atcatagtgg	gcatctgtct	catcttgata	gtcattttca	tgatcacaaa	780
atttgtccag	gatagacata	gagctagaag	aaacagactt	cgtaaagatc	aacttaagaa	840
acttcctgta	cataaattca	agaaaggaga	tgagtatgat	gtatgtgcca	tttgtttgga	900
tgagtatgaa	gatggagaca	aactcagaat	ccttccctgt	tcccatgctt	atcaytgcaa	960
gtgtgtagac	ccttggctaa	ctaaaaccaa	aaaaacctgt	ccagtgtgca	agcaaaaagt	1020
tgttccttct	caaggcgatt	cagactctga	cacagacagt	agtcaagaag	aaaatgaagt	1080
gacagaacat	acctttttac	tgagaccttt	agcttctgtc	agtgcccagt	catttggggc	1140
tttatcggaa	tcccgcctcac	atcagaacat	gacagaatct	tcagactatg	aggaagacga	1200
caatgaagat	actgacagta	gtgatgcaga	aatgaaatt	aatgaacatg	atgtcgtggg	1260
ccagttgcag	cctaattgggt	aacgggatta	caacatagca	aatactgttt	gactttcaga	1320
agatgattgg	tttatttccc	tttaaaatga	ttaggtatat	actgtaattt	gattttttgc	1380
tcccttcaaa	gattttctgta	gaaataactt	attttttagt	attctacagt	ttaatcaaat	1440
tactgaaaca	ggacttttga	tctgggtattt	atctgccaag	aatatacttc	attcactaat	1500
aatagactgg	tgctgtaact	caagcatcaa	ttcagctctt	cttttggaat	gaaagtatag	1560
ccaaaacata	aaaaaaaaaa	aatcctcag	tatagcttgc	aattaagacc	tagatcacag	1620
tatttaagtg	ttttgcgttt	tatacatgag	gtcagtgtca	cagccaccta	gcatgaacta	1680
accagcttc	cacctccata	aagttaccta	gagttgttga	gttggaatat	gttctggcat	1740
ttacctgacc	tgccaatcat	tagggagagg	caacaaggta	attcagcctt	tcctcctatc	1800
agcacaaaga	aactcaaagc	tgttttttcc	ctttctgttc	caaagcagtc	ttatcctgac	1860
aggagcggtc	tatactagtg	cagattttcaa	cacttttttt	taacgtttta	attactatag	1920
tgttatgtag	agatttgatt	gagcagctaa	tgtttctgaa	ctttacttac	taattttcag	1980
tgctccttaag	ggttctgtag	tgttatcaaa	gcaaaagaa	aatgctgcat	aaaaatacca	2040
aacttcagca	actgttaata	ctcagatcat	atacctctta	ataaatagca	tcttatgcta	2100
attagccctg	ctaaactatg	tacagaggaa	actgttcaag	tattggattt	gaaagtaagt	2160
gacttatgtt	taacagaact	aatgatgtat	tgaaacactg	tattatgaaa	agctaaatta	2220
tacatcattg	taactatgta	gaaagtgtag	actaatgtat	aatcaaaatg	ctaaggattt	2280
ttatatggcc	ttgtatgagg	ggagtttgaa	tgtaataaaa	catgttttcc	actttaagat	2340
ccagtaaatg	tctgttctac	tgtagtatta	cttaaaa			2377

<210> 45

<211> 74

<212> PRT

<213> Homo sapiens

<400> 45

Met	Leu	His	Leu	Ala	Ala	Met	Trp	Trp	Ala	Cys	Val	Thr	Thr	Leu	Val
1				5					10					15	

Phe	Thr	Leu	Val	Ser	Lys	Leu	Phe	Ile	Pro	Leu	Lys	Ser	Ser	Met	Asp
			20					25						30	

Gly	Glu	Met	Ser	Leu	Asp	Pro	His	Ser	Cys	Val	Leu	Val	Cys	Ile	Cys
		35					40					45			

Phe	Pro	Leu	Arg	Phe	Val	Phe	Val	Ser	Cys	Phe	Glu	Leu	Tyr	Leu	Val
	50					55					60				

Gln	Ser	Ile	Val	Lys	Leu	Ser	Gln	Gln	Leu
65						70			

<210> 46



<211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 46  
 Met Asp Ala Phe Ala Gly Ser Pro Phe Ser Leu Met Val Pro Lys Cys  
           1                  5                  10                  15  
 Val Leu Ile Leu Phe Cys Leu Val Tyr Ser Leu Gln Cys Ile Gln Pro  
                   20                  25                  30  
 Tyr Ser Ser Leu Leu Asn Ser Ala Ser Leu Pro Tyr His His Gly Leu  
           35                  40                  45  
 Lys Leu Ala Asn Leu Leu Leu Ile Val Phe Tyr Pro His Ile His Ser  
           50                  55                  60  
 Ile Pro Phe Ser Ser Ser His Pro Ser Lys Leu His Ile  
           65                  70                  75

<210> 47  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 47  
 Met Asp Leu Leu Gln Val Cys Phe Phe Leu Phe Phe Ser His Leu Trp  
           1                  5                  10                  15  
 Ser Trp Thr Glu Gly Lys Leu Pro Cys Asn Phe Pro Gly Pro Val Gly  
                   20                  25                  30  
 Arg Val Phe Leu Ser Pro Phe Gln Met Leu Gly Phe Lys Gln  
           35                  40                  45

<210> 48  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 48  
 Met Ala Phe Trp Phe Thr Gly Leu Pro Leu Leu Ser Leu Ile Leu Leu  
           1                  5                  10                  15  
 Cys Ile Gly Arg Val Phe Leu Gly Val Gly Glu Ser Phe Ala Ser Thr  
                   20                  25                  30  
 Gly Ser Thr Leu Trp Gly Ile Gly Leu Val Gly Pro Leu His Thr Ala  
           35                  40                  45  
 Arg Val Ile Ser Trp Asn Gly Val Ala Thr Tyr Gly Ala Met Ala Ala  
           50                  55                  60  
 Gly Ala Pro Leu Gly Val Tyr Leu Asn Gln His Trp Gly Leu Ala Gly  
           65                  70                  75                  80  
 Val Ala Ala Leu Ile Val Leu Ala Val Ala Val Ser Leu Trp Leu Ala  
                   85                  90                  95  
 Ser Ala Asn Pro Thr  
           100

```

<210> 49
<211> 381
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (344)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (361)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 49
Met Phe Gln Val Arg Pro Gly Trp Gln Leu Leu Leu Val Met Phe Ser
  1               5               10               15

Ser Cys Ala Val Ser Asn Gln Leu Leu Val Trp Tyr Pro Ala Thr Ala
      20               25               30

Leu Ala Asp Asn Lys Pro Val Ala Pro Asp Arg Arg Ile Ser Gly His
      35               40               45

Val Gly Ile Ile Phe Ser Met Ser Tyr Leu Glu Ser Lys Gly Leu Leu
      50               55               60

Ala Thr Xaa Ser Glu Asp Arg Ser Val Arg Ile Trp Lys Val Gly Asp
      65               70               75               80

Leu Arg Val Pro Gly Gly Arg Val Gln Asn Ile Gly His Cys Phe Gly
      85               90               95

His Ser Ala Arg Val Trp Gln Val Lys Leu Leu Glu Asn Tyr Leu Ile

```

100					105					110						
Ser	Ala	Gly	Glu	Asp	Cys	Val	Cys	Leu	Val	Trp	Ser	His	Glu	Gly	Glu	
115					120					125						
Ile	Leu	Gln	Ala	Phe	Arg	Gly	His	Gln	Gly	Xaa	Gly	Xaa	Arg	Ala	Ile	
130					135					140						
Ala	Ala	His	Glu	Arg	Gln	Ala	Trp	Val	Ile	Thr	Gly	Gly	Asp	Asp	Ser	
145					150					155					160	
Arg	His	Arg	Leu	Xaa	His	Leu	Val	Gly	Arg	Gly	Tyr	Arg	Gly	Leu	Gly	
165					170					175						
Val	Ser	Ala	Leu	Cys	Phe	Lys	Ser	Arg	Ser	Arg	Pro	Gly	Thr	Leu	Lys	
180					185					190						
Ala	Xaa	Thr	Leu	Ala	Gly	Ser	Trp	Arg	Leu	Leu	Ala	Val	Thr	Asp	Thr	
195					200					205						
Gly	Ala	Leu	Tyr	Leu	Tyr	Asp	Val	Glu	Val	Lys	Cys	Trp	Glu	Gln	Leu	
210					215					220						
Leu	Glu	Asp	Lys	His	Phe	Gln	Ser	Tyr	Cys	Leu	Leu	Glu	Ala	Ala	Pro	
225					230					235					240	
Gly	Pro	Glu	Gly	Phe	Gly	Leu	Cys	Ala	Met	Ala	Asn	Gly	Glu	Gly	Arg	
245					250					255						
Val	Lys	Val	Val	Pro	Ile	Asn	Thr	Pro	Thr	Ala	Ala	Val	Asp	Gln	Thr	
260					265					270						
Leu	Phe	Pro	Gly	Lys	Val	His	Ser	Leu	Ser	Trp	Ala	Leu	Arg	Gly	Tyr	
275					280					285						
Glu	Glu	Leu	Leu	Leu	Leu	Ala	Ser	Gly	Pro	Gly	Gly	Val	Val	Ala	Cys	
290					295					300						
Leu	Glu	Ile	Ser	Ala	Ala	Pro	Ser	Gly	Lys	Ala	Ile	Phe	Val	Lys	Glu	
305					310					315					320	
Arg	Cys	Arg	Tyr	Leu	Leu	Pro	Pro	Ser	Lys	Gln	Arg	Trp	His	Thr	Cys	
325					330					335						
Ser	Ala	Phe	Leu	Pro	Pro	Gly	Xaa	Phe	Leu	Val	Cys	Gly	Asp	Arg	Arg	
340					345					350						
Gly	Ser	Val	Leu	Leu	Phe	Pro	Ser	Xaa	Pro	Gly	Leu	Leu	Lys	Asp	Pro	
355					360					365						
Gly	Val	Gly	Gly	Lys	Ala	Arg	Ala	Gly	Ala	Gly	Ala	Leu				
370					375					380						
<210> 50 <211> 45 <212> PRT <213> Homo sapiens																
<400> 50 Met Gln Lys Lys Lys Leu Val Cys Tyr Leu Met Leu Arg Gln Tyr Phe 1 5 10 15																

Phe Leu Val Val Val Ser Leu Pro Trp Pro Cys Val Leu Phe Gln Met  
20 25 30

His Tyr Pro Arg Thr Val Thr Pro Thr Leu Thr Glu Tyr  
35 40 45

<210> 51  
<211> 168  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> MISC\_FEATURE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> MISC\_FEATURE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 51  
Met Val Thr Phe Ala Ser Ser Thr Leu Trp Ile Ala Ala Phe Ser Tyr  
1 5 10 15

Met Met Val Trp Met Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro  
20 25 30

Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Thr Ser Val Pro  
35 40 45

Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Xaa Met Gly Asp Xaa  
50 55 60

Ala Val Ser Asn Ser Ile Gly Ser Asn Val Phe Asp Ile Leu Ile Gly  
65 70 75 80

Leu Gly Leu Pro Trp Ala Leu Gln Thr Leu Ala Val Asp Tyr Gly Ser  
85 90 95

Tyr Ile Arg Leu Asn Ser Arg Gly Leu Ile Tyr Ser Val Gly Leu Leu  
100 105 110

Leu Ala Ser Val Phe Val Thr Val Phe Gly Val His Leu Asn Lys Trp  
115 120 125

Gln Leu Asp Xaa Lys Leu Gly Cys Gly Cys Leu Leu Leu Tyr Gly Val  
130 135 140

Phe Leu Cys Phe Ser Ile Met Thr Glu Phe Asn Val Phe Thr Phe Val  
145 150 155 160

Asn Leu Pro Met Cys Gly Asp His  
165

<210> 52  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 52  
 Met Thr Ser Val Pro Leu Ala Thr Phe Ser Val Leu Thr Ile Ala Leu  
   1                  5                  10                  15  
 Arg Ala Gln Val Leu Lys Leu Val Val Leu Ser Phe Val Ser Ala Phe  
                   20                  25                  30  
 Ser Pro Val His Tyr Pro Pro Pro Leu Leu Leu Lys Gln Ser Arg Leu  
                   35                  40                  45

Asn

<210> 53  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 53  
 Met Leu Cys Asp Leu Ile Leu Leu Phe Asn Ile Lys Met Ala Ile Tyr  
   1                  5                  10                  15  
 His Leu Ile Ile Leu Gln Phe Phe Cys Ser Val Cys Ser Glu Pro Asp  
                   20                  25                  30  
 Thr Ala Leu Ser Ile Ser Pro Leu  
                   35                  40

<210> 54  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 54  
 Met Leu Leu Ser Phe Tyr Cys Leu Pro Met Val Ser Ile His Ile Phe  
   1                  5                  10                  15  
 Phe Pro Cys Ala His Cys Val Tyr Leu Leu His Ile Ser Cys Ser Leu  
                   20                  25                  30  
 Gly Glu Glu Ser Phe Asn Arg Asp Thr Cys Lys Lys Asp Phe Cys Phe  
                   35                  40                  45  
 Ser Ile Gln Asn Val Asn Ser Thr Phe Leu Leu Ser Leu Ala Val Phe  
                   50                  55                  60  
 Arg Phe Ser Glu Arg Phe Ser Asp Ser Asn Phe Leu Phe Thr Thr Pro  
   65                  70                  75                  80  
 Pro Ile Cys Ser Glu Lys Asn Gly Leu Leu Tyr His Trp Ile  
                   85                  90

<210> 55  
 <211> 484  
 <212> PRT  
 <213> Homo sapiens

```

<220>
<221> MISC_FEATURE
<222> (322)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (374)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 55
Met Val Ala Thr Val Cys Gly Leu Leu Val Phe Leu Ser Leu Gly Leu
 1             5             10             15
Val Pro Pro Val Arg Cys Leu Phe Ala Leu Ser Val Pro Thr Leu Gly
          20             25             30
Met Glu Gln Gly Arg Arg Leu Leu Leu Ser Tyr Ser Thr Ala Thr Leu
          35             40             45
Ala Ile Ala Val Val Pro Asn Val Leu Ala Asn Val Gly Ala Ala Gly
          50             55             60
Gln Val Leu Arg Cys Val Thr Glu Gly Ser Leu Glu Ser Leu Leu Asn
          65             70             75             80
Thr Thr His Gln Leu His Ala Ala Ser Arg Ala Leu Gly Pro Thr Gly
          85             90             95
Gln Ala Gly Ser Arg Gly Leu Thr Phe Glu Ala Gln Asp Asn Gly Ser
          100             105             110
Ala Phe Tyr Leu His Met Leu Thr Val Thr Gln Gln Val Leu Glu Asp
          115             120             125
Phe Ser Gly Leu Glu Ser Leu Ala Arg Ala Ala Ala Leu Gly Thr Gln
          130             135             140
Arg Val Val Thr Gly Leu Phe Met Leu Gly Leu Leu Val Glu Ser Ala
          145             150             155             160
Trp Tyr Leu His Cys Tyr Leu Thr Asp Leu Arg Phe Asp Asn Ile Tyr
          165             170             175
Ala Thr Gln Gln Leu Thr Gln Arg Leu Ala Gln Ala Gln Ala Thr His
          180             185             190
Leu Leu Ala Pro Pro Pro Thr Trp Leu Leu Gln Ala Ala Gln Leu Arg
          195             200             205
Leu Ser Gln Glu Glu Leu Leu Ser Cys Leu Leu Arg Leu Gly Leu Leu
          210             215             220
Ala Leu Leu Leu Val Ala Thr Ala Val Ala Val Ala Thr Asp His Val
          225             230             235             240

```

Ala Phe Leu Leu Ala Gln Ala Thr Val Asp Trp Ala Gln Lys Leu Pro  
 245 250 255  
 Thr Val Pro Ile Thr Leu Thr Val Lys Tyr Asp Val Ala Tyr Thr Val  
 260 265 270  
 Leu Gly Phe Ile Pro Phe Leu Phe Asn Gln Leu Ala Pro Glu Ser Pro  
 275 280 285  
 Phe Leu Ser Val His Ser Ser Tyr Gln Trp Glu Leu Arg Leu Thr Ser  
 290 295 300  
 Ala Arg Cys Pro Leu Leu Pro Ala Arg Arg Pro Arg Ala Ala Ala Pro  
 305 310 315 320  
 Leu Xaa Ala Gly Gly Leu Gln Leu Leu Ala Gly Ser Thr Val Leu Leu  
 325 330 335  
 Glu Gly Tyr Ala Arg Arg Leu Arg Xaa Ala Ile Ala Ala Ser Phe Phe  
 340 345 350  
 Thr Ala Gln Glu Ala Arg Arg Ile Arg His Leu His Ala Arg Leu Gln  
 355 360 365  
 Arg Arg His Asp Arg Xaa Gln Gly Gln Gln Leu Pro Leu Gly Asp Pro  
 370 375 380  
 Ser Cys Val Pro Thr Pro Arg Pro Ala Cys Lys Pro Pro Ala Trp Ile  
 385 390 395 400  
 Ala Tyr Arg Leu Asp Ala Leu Arg Thr Glu Ser Ser Glu Gly Glu Gly  
 405 410 415  
 Lys Glu Leu Trp Ser Cys Arg Asp Leu Ser Cys His Leu Gly Pro Val  
 420 425 430  
 Pro Pro Pro Cys Val Thr Leu Gly Lys Ser Leu His Leu Ser Glu Pro  
 435 440 445  
 Arg Phe Leu His Leu His Asn Asp Ser Ile Phe Thr Ile Asp Val Thr  
 450 455 460  
 Tyr Phe Pro Arg Arg Asp Val Val Arg Met Glu Gly Asn Thr Gly His  
 465 470 475 480

Asp Arg Pro Gly

<210> 56

<211> 114

<212> PRT

<213> Homo sapiens

<400> 56

Met Pro Ile His Lys Thr Lys Ile Ser Cys Val Phe Leu Leu Leu Ser  
 1 5 10 15

Leu Lys Trp His Trp Met Thr Asn Gly Lys Leu Asp Ala Ala Leu Asn  
 20 25 30

Val Pro Leu Gly Phe Arg Gly Phe Gln Ser Gln Trp Thr Gly Gly Gly

35                      40                      45  
 Leu Cys Gln Cys Leu Ser Gly Val Cys Leu Cys His Cys Gly Ala Ala  
     50                      55                      60  
 Trp Ala Thr Asp Leu Gly Arg Thr Leu Gly Asp Gly Ala Pro Val Trp  
     65                      70                      75                      80  
 Trp Val Cys Val Gly Ser Ala Val Pro Val His Val Arg Lys Ala Leu  
                     85                      90                      95  
 Leu Leu Tyr Thr Glu Ser Cys Ser Leu Ser Thr Thr Asp Arg Ser Pro  
                     100                      105                      110

Leu Pro

<210> 57  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 57  
 Met Ser Arg Ala Pro Cys Ala Ser Ser Ile Leu Val Leu Thr Leu Ile  
     1                      5                      10                      15  
 Val Thr Leu Leu Val Leu Leu Cys Ser Val Lys Ile Cys Asn Trp Leu  
                     20                      25                      30  
 Arg Ile Thr Val Gly Val His Ser Tyr Ser Thr Lys Ser Pro Gln Val  
                     35                      40                      45

Phe

<210> 58  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<400> 58  
 Met Lys Lys Cys Leu Leu Pro Val Leu Ile Thr Cys Met Gln Thr Ala  
     1                      5                      10                      15  
 Ile Cys Lys Asp Arg Met Met Met Ile Met Ile Leu Leu Val Asn Tyr  
                     20                      25                      30  
 Arg Pro Asp Glu Phe Ile Glu Cys Glu Asp Pro Val Asp His Val Gly  
                     35                      40                      45  
 Asn Ala Thr Ala Ser Gln Glu Leu Gly Tyr Gly Cys Leu Lys Phe Gly  
                     50                      55                      60  
 Gly Gln Ala Tyr Ser Asp Val Glu His Thr Ser Val Gln Cys His Ala  
     65                      70                      75                      80  
 Leu Asp Gly Ile Glu Cys Ala Ser Pro Arg Thr Phe Leu Arg Glu Asn  
                     85                      90                      95  
 Lys Pro Cys Ile Lys Tyr Thr Gly His Tyr Phe Ile Thr Thr Leu Leu  
                     100                      105                      110



Tyr Ser Phe Phe Leu Gly Cys Phe Gly Val Asp Arg Phe Cys Leu Gly  
 115 120 125  
 His Thr Gly Thr Ala Val Gly Lys Leu Leu Thr Leu Gly Gly Leu Gly  
 130 135 140  
 Ile Trp Trp Phe Val Asp Leu Ile Leu Leu Ile Thr Gly Gly Leu Met  
 145 150 155 160  
 Pro Ser Asp Gly Ser Asn Trp Cys Thr Val Tyr  
 165 170

<210> 59  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 59  
 Met Leu Ser Gln Pro Arg Met Glu Ser Leu Asp Thr Pro Ala Ala Tyr  
 1 5 10 15  
 Ser Leu Gly Leu Ala Leu Leu Gly Leu Gly Val Val Leu Val Leu Ser  
 20 25 30  
 Ser Phe Phe Ala Leu Gly Phe Ala Gly Thr Phe Leu Gly Asp Tyr Phe  
 35 40 45  
 Gly Ile Leu Lys Glu Ala Arg Val Thr Val Phe Pro Phe Asn Ile Leu  
 50 55 60  
 Asp Asn Pro Met Tyr Trp Gly Ser Thr Ala Asn Tyr Leu Gly Trp Ala  
 65 70 75 80  
 Ile Met His Ala Ser Pro Thr Gly Leu Leu Leu Thr Val Leu Val Ala  
 85 90 95  
 Leu Thr Tyr Ile Xaa Ala Leu Leu Tyr Glu Glu Pro Phe Thr Ala Glu  
 100 105 110  
 Ile Tyr Arg Gln Lys Ala Ser Gly Ser His Lys Arg Ser  
 115 120 125

<210> 60  
 <211> 310  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (142)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 60  
 Met Leu Leu Trp Leu Leu Gly Trp Leu Glu Cys Val His Asn Ser Arg  
 1 5 10 15

Arg	Ser	Gln	Gly	Leu	Pro	Pro	His	Tyr	Asp	Asp	Val	Glu	Val	Phe	Ile		
			20					25					30				
Leu	Gln	Leu	Glu	Gly	Glu	Lys	His	Trp	Arg	Leu	Tyr	His	Pro	Thr	Val		
		35					40					45					
Pro	Leu	Ala	Arg	Glu	Tyr	Ser	Val	Glu	Ala	Glu	Glu	Arg	Ile	Gly	Arg		
	50					55					60						
Pro	Val	His	Glu	Phe	Met	Leu	Lys	Pro	Gly	Asp	Leu	Leu	Tyr	Phe	Pro		
	65				70					75					80		
Arg	Gly	Thr	Ile	His	Gln	Ala	Asp	Thr	Pro	Ala	Gly	Leu	Ala	His	Ser		
				85					90					95			
Thr	His	Val	Thr	Ile	Ser	Thr	Tyr	Gln	Asn	Asn	Ser	Trp	Gly	Asp	Phe		
			100					105					110				
Leu	Leu	Asp	Thr	Ile	Ser	Gly	Leu	Val	Phe	Asp	Thr	Ala	Lys	Glu	Asp		
		115					120					125					
Val	Glu	Leu	Arg	Thr	Gly	Ile	Pro	Arg	Gln	Leu	Leu	Leu	Xaa	Val	Glu		
	130					135					140						
Ser	Thr	Thr	Val	Ala	Thr	Arg	Arg	Leu	Ser	Gly	Phe	Leu	Arg	Thr	Leu		
	145				150					155					160		
Ala	Asp	Arg	Leu	Glu	Gly	Thr	Lys	Glu	Leu	Ser	Ser	Ser	Asp	Met	Lys		
				165				170						175			
Lys	Asp	Phe	Ile	Met	His	Arg	Leu	Pro	Pro	Tyr	Ser	Ala	Gly	Asp	Gly		
			180					185					190				
Ala	Glu	Leu	Ser	Thr	Pro	Gly	Gly	Lys	Leu	Pro	Arg	Leu	Asp	Ser	Val		
		195					200					205					
Val	Arg	Leu	Gln	Phe	Lys	Asp	His	Ile	Val	Leu	Thr	Val	Leu	Pro	Asp		
	210					215					220						
Gln	Asp	Gln	Ser	Asp	Glu	Ala	Gln	Glu	Lys	Met	Val	Tyr	Ile	Tyr	His		
	225				230					235					240		
Ser	Leu	Lys	Asn	Ser	Arg	Glu	Thr	His	Met	Met	Gly	Asn	Glu	Glu	Glu		
				245					250				255				
Thr	Glu	Phe	His	Gly	Leu	Arg	Phe	Pro	Leu	Ser	His	Leu	Asp	Ala	Leu		
			260					265					270				
Lys	Gln	Ile	Trp	Asn	Ser	Pro	Ala	Ile	Ser	Val	Lys	Asp	Leu	Lys	Leu		
		275					280					285					
Thr	Thr	Asp	Glu	Glu	Lys	Glu	Ser	Leu	Val	Leu	Ser	Leu	Trp	Thr	Glu		
	290					295					300						
Cys	Leu	Ile	Gln	Val	Val												
	305				310												

<210> 61  
 <211> 163  
 <212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 61

Met Xaa Gly Leu Leu Leu Ala Ala Phe Leu Ala Leu Val Ser Val Pro  
1 5 10 15

Arg Ala Gln Ala Val Trp Leu Gly Arg Leu Asp Pro Glu Gln Leu Leu  
20 25 30

Gly Pro Trp Tyr Val Leu Ala Val Ala Ser Arg Glu Lys Gly Phe Ala  
35 40 45

Met Glu Lys Asp Met Lys Asn Val Val Gly Val Val Val Thr Leu Thr  
50 55 60

Pro Glu Asn Asn Leu Arg Thr Leu Ser Ser Gln His Gly Leu Gly Gly  
65 70 75 80

Cys Asp Gln Ser Val Met Asp Leu Ile Lys Arg Asn Ser Gly Trp Val  
85 90 95

Phe Glu Asn Pro Ser Ile Gly Val Leu Glu Leu Trp Val Leu Ala Thr  
100 105 110

Asn Phe Arg Asp Tyr Ala Ile Ile Phe Thr Gln Leu Glu Phe Gly Asp  
115 120 125

Glu Pro Phe Asn Thr Val Glu Leu Tyr Ser Leu Thr Glu Thr Ala Ser  
130 135 140

Gln Glu Ala Met Gly Leu Phe Thr Lys Trp Ser Arg Ser Leu Gly Phe  
145 150 155 160

Leu Ser Gln

<210> 62

<211> 239

<212> PRT

<213> Homo sapiens

<400> 62

Met Arg Ala Leu Arg Arg Leu Ile Gln Gly Arg Ile Leu Leu Leu Thr  
1 5 10 15

Ile Cys Ala Ala Gly Ile Gly Gly Thr Phe Gln Phe Gly Tyr Asn Leu  
20 25 30

Ser Ile Ile Asn Ala Pro Thr Leu His Ile Gln Glu Phe Thr Asn Glu  
35 40 45

Thr Trp Gln Ala Arg Thr Gly Glu Pro Leu Pro Asp His Leu Val Leu  
50 55 60

Leu Met Trp Ser Leu Ile Val Ser Leu Tyr Pro Leu Gly Gly Leu Phe  
65 70 75 80

Gly Ala Leu Leu Ala Gly Pro Leu Ala Ile Thr Leu Gly Arg Lys Lys  
                                     85                                    90                                    95  
 Ser Leu Leu Val Asn Asn Ile Phe Val Val Ser Ala Ala Ile Leu Phe  
                                     100                                    105                                    110  
 Gly Phe Ser Arg Lys Ala Gly Ser Phe Glu Met Ile Met Leu Gly Arg  
                                     115                                    120                                    125  
 Leu Leu Val Gly Val Asn Ala Gly Val Ser Met Asn Ile Gln Pro Met  
                                     130                                    135                                    140  
 Tyr Leu Gly Glu Ser Ala Pro Lys Glu Leu Arg Gly Ala Val Ala Met  
                                     145                                    150                                    155                                    160  
 Ser Ser Ala Ile Phe Thr Ala Leu Gly Ile Val Met Gly Gln Val Val  
                                     165                                    170                                    175  
 Gly Leu Ser Thr Thr Ala Ala Pro Gly Leu Arg Gly Leu Gly Arg Gly  
                                     180                                    185                                    190  
 Ala Gly Gly Ala Gly Gly Gly Ala Arg Cys Leu Pro Gly Leu Pro Cys  
                                     195                                    200                                    205  
 Pro Ala Pro Met Gly Ala Val Pro Ala Ser Gly Pro Glu Glu Thr Gly  
                                     210                                    215                                    220  
 Asp Lys Pro Arg Gly Ser Gly Gln Cys His Gly Ala Leu Arg Glu  
                                     225                                    230                                    235

<210> 63  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 63  
 Met Glu Arg Trp Val Asp Asp Ala Phe Trp Ser Phe Leu Phe Ser Leu  
                                     1                                    5                                    10                                    15  
 Ile Leu Ile Val Ile Met Phe Leu Trp Arg Pro Ser Ala Asn Asn Gln  
                                     20                                    25                                    30  
 Arg Tyr Ala Phe Met Pro Leu Ile Asp Asp Ser Asp Asp Glu Ile Glu  
                                     35                                    40                                    45  
 Glu Phe Met Val Thr Ser Glu Asn Leu Thr Glu Gly Ile Lys Leu Arg  
                                     50                                    55                                    60  
 Ala Ser Lys Ser Val Ser Asn Gly Thr Ala Lys Pro Ala Thr Ser Glu  
                                     65                                    70                                    75                                    80  
 Asn Phe Asp Glu Asp Leu Lys Trp Val Glu Glu Asn Ile Pro Ser Ser  
                                     85                                    90                                    95  
 Phe Thr Asp Val Ala Leu Pro Val Leu Val Asp Ser Asp Glu Glu Ile  
                                     100                                    105                                    110

Met Thr Arg Ser Glu Met Ala Glu Lys Met Phe Ser Ser Glu Lys Ile  
 115 120 125

Met

<210> 64  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 64  
 Met Phe Glu Cys Val Ile Leu Val Ser Phe Leu Val Val Phe Val Val  
 1 5 10 15

Val Arg Cys Val Gly Leu Ile Pro Thr Gly Gln Ser Lys Glu Phe Gln  
 20 25 30

His Pro Leu Pro Ala Cys Ser Cys Tyr Pro Thr Asp Gln Thr Leu Asn  
 35 40 45

Ser Ser Trp Gly Cys Cys Leu Ala Pro His His Asp  
 50 55 60

<210> 65  
 <211> 381  
 <212> PRT  
 <213> Homo sapiens

<400> 65  
 Met Leu Leu Ser Ile Gly Met Leu Met Leu Ser Ala Thr Gln Val Tyr  
 1 5 10 15

Thr Ile Leu Thr Val Gln Leu Phe Ala Phe Leu Asn Leu Leu Pro Val  
 20 25 30

Glu Ala Asp Ile Leu Ala Tyr Asn Phe Glu Asn Ala Ser Gln Thr Phe  
 35 40 45

Asp Asp Leu Pro Ala Arg Phe Gly Tyr Arg Leu Pro Ala Glu Gly Leu  
 50 55 60

Lys Gly Phe Leu Ile Asn Ser Lys Pro Glu Asn Ala Cys Glu Pro Ile  
 65 70 75 80

Val Pro Pro Pro Val Lys Asp Asn Ser Ser Gly Thr Phe Ile Val Leu  
 85 90 95

Ile Arg Arg Leu Asp Cys Asn Phe Asp Ile Lys Val Leu Asn Ala Gln  
 100 105 110

Arg Ala Gly Tyr Lys Ala Ala Ile Val His Asn Val Asp Ser Asp Asp  
 115 120 125

Leu Ile Ser Met Gly Ser Asn Asp Ile Glu Val Leu Lys Lys Ile Asp  
 130 135 140

Ile Pro Ser Val Phe Ile Gly Glu Ser Ser Ala Asn Ser Leu Lys Asp  
 145 150 155 160

Glu Phe Thr Tyr Glu Lys Gly Gly His Leu Ile Leu Val Pro Glu Phe

165										170					175				
Ser	Leu	Pro	Leu	Glu	Tyr	Tyr	Leu	Ile	Pro	Phe	Leu	Ile	Ile	Val	Gly				
			180					185					190						
Ile	Cys	Leu	Ile	Leu	Ile	Val	Ile	Phe	Met	Ile	Thr	Lys	Phe	Val	Gln				
		195					200					205							
Asp	Arg	His	Arg	Ala	Arg	Arg	Asn	Arg	Leu	Arg	Lys	Asp	Gln	Leu	Lys				
	210					215					220								
Lys	Leu	Pro	Val	His	Lys	Phe	Lys	Lys	Gly	Asp	Glu	Tyr	Asp	Val	Cys				
225					230				235						240				
Ala	Ile	Cys	Leu	Asp	Glu	Tyr	Glu	Asp	Gly	Asp	Lys	Leu	Arg	Ile	Leu				
				245					250					255					
Pro	Cys	Ser	His	Ala	Tyr	His	Cys	Lys	Cys	Val	Asp	Pro	Trp	Leu	Thr				
			260					265					270						
Lys	Thr	Lys	Lys	Thr	Cys	Pro	Val	Cys	Lys	Gln	Lys	Val	Val	Pro	Ser				
		275					280					285							
Gln	Gly	Asp	Ser	Asp	Ser	Asp	Thr	Asp	Ser	Ser	Gln	Glu	Glu	Asn	Glu				
	290					295					300								
Val	Thr	Glu	His	Thr	Pro	Leu	Leu	Arg	Pro	Leu	Ala	Ser	Val	Ser	Ala				
305					310				315						320				
Gln	Ser	Phe	Gly	Ala	Leu	Ser	Glu	Ser	Arg	Ser	His	Gln	Asn	Met	Thr				
				325					330					335					
Glu	Ser	Ser	Asp	Tyr	Glu	Glu	Asp	Asp	Asn	Glu	Asp	Thr	Asp	Ser	Ser				
			340					345					350						
Asp	Ala	Glu	Asn	Glu	Ile	Asn	Glu	His	Asp	Val	Val	Val	Gln	Leu	Gln				
		355					360					365							
Pro	Asn	Gly	Glu	Arg	Asp	Tyr	Asn	Ile	Ala	Asn	Thr	Val							
	370					375					380								

<210> 66

<211> 53

<212> PRT

<213> Homo sapiens

<400> 66

Met	Ala	Ala	Leu	Leu	Leu	Ala	Gly	Ile	Cys	Ile	Leu	Leu	Asn	Gly	Val
1				5					10					15	

Ile	Pro	Gln	Asp	Gln	Ser	Ile	Val	Arg	Thr	Ser	Leu	Ala	Val	Leu	Gly
			20					25					30		

Lys	Gly	Cys	Leu	Ala	Ala	Ser	Phe	Asn	Cys	Ile	Phe	Leu	Tyr	Thr	Gly
		35					40					45			

Asn	Cys	Ile	Pro	Gln
	50			

<210> 67

<211> 63

<212> PRT

<213> Homo sapiens

<400> 67

Met His Trp Asn Leu Pro Gln Val Asn Leu Phe Ala Leu Leu Leu Leu  
1 5 10 15  
Thr Ile Leu Thr Leu Val Pro His Leu Val Val Pro Tyr His His Arg  
20 25 30  
His Tyr Gln Ala Gln Gln Asn Asn Arg Glu Pro Tyr Leu Gln Asn Cys  
35 40 45  
Gln Ala His His Leu His Gln Leu Leu Pro Phe His Arg Asp Gln  
50 55 60

<210> 68

<211> 106

<212> PRT

<213> Homo sapiens

<400> 68

Met Phe Cys Phe Tyr Leu Asn Tyr Phe Thr Asn Leu Phe Leu Phe Leu  
1 5 10 15  
Thr Cys Ser Arg Ser Glu Ser Leu Ser Ser Pro Thr Gly Pro Tyr Ser  
20 25 30  
Gly Phe Pro Phe Leu Lys Ser Pro Pro Val Arg Asn Ser Leu Asn Lys  
35 40 45  
Gly Pro Leu Leu Val Gln Tyr Tyr Ser Phe Ser Ser His Leu Arg Val  
50 55 60  
Pro Arg Lys Lys Lys Gln Val Ile Arg Val Pro Val Arg Val Pro Pro  
65 70 75 80  
Lys Ser Pro Ala Met Ser Pro Pro Ser Ser Pro Arg Phe His Phe Phe  
85 90 95  
Thr Phe Ser Gly Pro Phe Pro Asn Ser Tyr  
100 105

<210> 69

<211> 44

<212> PRT

<213> Homo sapiens

<400> 69

Met Arg Lys Thr Ala Trp Leu Cys Phe Phe Phe Gln Leu Cys Gly Leu  
1 5 10 15  
Gly Gln Val Thr Ser Leu Gln Tyr Arg Asn Cys Asn Val Glu Ile Lys  
20 25 30  
Pro Ser Leu Val Arg Gly Thr His Arg Ser Ile Pro  
35 40

<210> 70  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 70  
 Met Asn Leu Leu Leu Val Ser Thr Trp Met Met Leu Ile Gln Glu  
   1                  5                  10                  15  
 Gly Ser Cys Phe His Met Thr Leu Met Asn Glu Leu Ala Lys Arg Cys  
                   20                  25                  30  
 Tyr Trp Ser Tyr Phe Val Arg Ser His Ile  
           35                  40  
  
 <210> 71  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 71  
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro  
   1                  5                  10                  15  
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu  
                   20                  25                  30  
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala  
           35                  40                  45  
 Trp Phe Ile Ala Gly Ile Phe Leu Leu  
       50                  55  
  
 <210> 72  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 72  
 Met Lys Ser His Ala Thr Leu Thr Gly Gly Ser Gly Phe Tyr Phe Ile  
   1                  5                  10                  15  
 Glu Leu Ser Phe Leu Leu Leu Arg Ser Val Leu Leu Val Leu Val Leu  
           20                  25                  30  
 Leu Trp Gln Phe Pro Lys Ser Leu Thr Gly Gln Glu  
       35                  40  
  
 <210> 73  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (44)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> MISC\_FEATURE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> MISC\_FEATURE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> MISC\_FEATURE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 73  
 Met Gly Ile Phe Ser Thr Leu Leu Leu Ala Ser Asp Ser Leu Leu Asn  
     1                    5                    10                    15  
 Leu Ile Leu Phe Phe Phe Ile Phe Ala Phe Ser Val Lys Leu Ser Ser  
                     20                    25                    30  
 Ser Ser Phe Pro Ser Cys Cys Val Ser Val Xaa Xaa Leu Ser Val Ile  
             35                    40                    45  
 Xaa Glu Ser Xaa Ser Ser His Xaa Ala Thr Cys Ala His Thr Ser Leu  
     50                    55                    60  
 Ser Gly Thr Pro Val Met  
     65                    70

<210> 74  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 74  
 Met Met Ser Pro Ser Gly Ile Ile Val Tyr Val Ser Ala Thr Pro His  
     1                    5                    10                    15  
 Ile Leu Leu Cys Ile Leu Ile Thr Phe Met Leu Ala Ile Pro Ser Ile  
                     20                    25                    30  
 His Asn Gly Arg Val Cys Val Leu Phe Ile Phe  
             35                    40

<210> 75  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 75  
 Met His Val His Cys Phe Ala Ile His Val Leu Phe His Phe Cys Ser  
     1                    5                    10                    15  
 Thr Ile Ser Ala Asp Ala Leu Ser Phe Cys Ile Phe Cys Tyr Gly Pro  
             20                    25                    30  
 Gln Thr Leu Ile Asp Met Tyr Trp Asn Ser

35

40

&lt;210&gt; 76

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 76

Met	Phe	Gln	Val	Arg	Pro	Gly	Trp	Gln	Leu	Leu	Leu	Val	Met	Phe	Ser
1				5					10					15	

Ser	Cys	Ala	Val	Ser	Asn	Gln	Leu	Leu	Val	Trp	Tyr	Pro	Ala	Thr	Ala
			20				25						30		

Leu	Ala	Asp	Asn	Lys	Pro	Val	Ala	Pro	Asp	Arg	Arg	Ile	Ser	Gly	His
		35					40					45			

Val	Gly	Ile	Ile	Phe	Ser	Met	Ser	Tyr	Leu	Glu	Ser	Lys	Gly	Leu	Leu
	50					55					60				

Ala	Thr	Xaa	Ser	Glu	Asp	Arg	Ser	Val	Arg	Ile	Trp	Lys	Val	Gly	Asp
65					70					75					80

Leu	Arg	Val	Pro	Gly	Gly	Arg	Val	Gln	Asn	Ile	Gly	His	Cys	Phe	Gly
				85					90					95	

His	Ser	Ala	Arg	Val	Trp	Gln	Val	Lys	Leu	Leu	Glu	Asn	Tyr	Leu	Ile
			100					105					110		

Ser	Ala	Gly	Glu	Asp	Cys	Val	Cys	Leu	Val	Trp	Ser	His	Glu	Gly	Glu
		115					120					125			

Ile	Leu	Gln	Ala	Phe	Arg	Gly	His	Gln	Asp	Val	Tyr	Pro	Val	Val	Val
	130					135					140				

Gly	Ala	Glu	Ile	His	Ala	Glu	Leu	Tyr	Gln	Glu	Leu	Ala	Tyr	Leu	Glu
145					150					155					160

Thr	Glu	Thr	Glu	Ser	Leu	Ala	His	Leu	Phe	Ala	Leu	Val	Pro	Arg	Pro
				165					170					175	

Glu

&lt;210&gt; 77

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 77

Met	Val	Thr	Phe	Ala	Ser	Ser	Thr	Leu	Trp	Ile	Ala	Ala	Phe	Ser	Tyr
1				5					10					15	

Met	Met	Val	Trp	Met	Val	Thr	Ile	Ile	Gly	Tyr	Thr	Leu	Gly	Ile	Pro
			20					25					30		

Asp Val Ile Met Gly Asp His Leu Pro Gly Cys Trp Asp Gln Arg Ala  
 35 40 45

<210> 78  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 78  
 Met Leu Leu Ser Ile Gly Met Leu Met Leu Ser Ala Thr Gln Val Tyr  
 1 5 10 15  
 Thr Ile Leu Thr Val Gln Leu Phe Ala Phe Leu Asn Leu Leu Pro Val  
 20 25 30  
 Glu Ala Asp Ile Leu Ala Tyr Asn Phe Glu Asn Ala Ser Gln Thr Phe  
 35 40 45  
 Asp Asp Leu Pro Ala Arg Phe Gly Tyr Arg Leu Pro Ala Glu Gly Leu  
 50 55 60  
 Lys Gly Phe Leu Ile Asn Ser Lys Pro Glu Asn Ala Cys Glu Pro Ile  
 65 70 75 80  
 Val Pro Pro Pro Val Lys Asp Asn Ser Ser Gly His Phe His Arg Val  
 85 90 95

Asn

<210> 79  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 79  
 Asn Tyr Phe Pro Val His Thr Val Gln Pro Asn Trp Tyr Val  
 1 5 10

<210> 80  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 80  
 Pro Val Phe Thr Val Asn Phe Leu Ala Trp Val His Ala Pro Pro Val  
 1 5 10 15  
 Ser Ile Thr Val Asp Leu Ile Pro Thr Leu Ala Gln Ala Trp Ser  
 20 25 30

<210> 81  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 81  
 Trp Ile Gln Arg Ile Arg Thr Ser Ala Asp Gln Leu Gly Pro Lys Lys  
 1 5 10 15

Val Val Xaa Phe Gly Leu Ala Cys Cys Gly Val Ser Gly Leu Phe Tyr  
 20 25 30

Ala

<210> 82  
 <211> 351  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> MISC\_FEATURE  
 <222> (326)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 82  
 Pro Pro Gly Leu Cys Ala Ala Ile Pro Leu Gln Thr Arg Ser Ala Gln  
 1 5 10 15

Gly Pro Trp Gly Gly Arg Gln Gly Ser Gly Trp Cys Trp Gly Thr Val  
 20 25 30

Val Gly Ser Gly Ser Ser Gly Gly Gly Asn Ala Phe Thr Gly Leu Gly  
 35 40 45

Pro Val Ser Thr Leu Pro Ser Leu His Gly Lys Gln Gly Val Thr Ser  
 50 55 60

Val Thr Cys His Gly Gly Tyr Val Tyr Thr Thr Gly Arg Xaa Gly Ala  
 65 70 75 80

Tyr Tyr Gln Leu Phe Val Arg Asp Gly Gln Leu Gln Pro Val Leu Arg  
 85 90 95

Gln Lys Ser Cys Arg Gly Met Asn Trp Leu Ala Gly Leu Arg Ile Val  
 100 105 110

Pro Asp Gly Ser Met Val Ile Leu Gly Phe His Ala Asn Glu Phe Val  
 115 120 125

Val Trp Asn Pro Arg Ser His Glu Lys Leu His Ile Val Asn Cys Gly  
 130 135 140

Gly Gly His Arg Ser Trp Ala Phe Ser Asp Thr Glu Ala Ala Met Ala  
 145 150 155 160

Phe Ala Tyr Leu Lys Asp Gly Asp Val Met Leu Tyr Arg Ala Leu Gly  
 165 170 175

Gly Cys Thr Arg Pro His Val Ile Leu Arg Glu Gly Leu His Gly Arg

180					185					190						
Glu	Ile	Thr	Cys	Val	Lys	Arg	Val	Gly	Thr	Ile	Thr	Leu	Gly	Pro	Glu	
195					200					205						
Tyr	Gly	Val	Pro	Ser	Phe	Met	Gln	Pro	Asp	Asp	Leu	Glu	Pro	Gly	Ser	
210					215					220						
Glu	Gly	Pro	Asp	Leu	Thr	Asp	Ile	Val	Ile	Thr	Cys	Ser	Glu	Asp	Thr	
225					230					235					240	
Thr	Val	Cys	Val	Leu	Ala	Leu	Pro	Thr	Thr	Thr	Gly	Ser	Ala	His	Ala	
245					250					255						
Leu	Thr	Ala	Val	Cys	Asn	His	Ile	Ser	Ser	Val	Arg	Ala	Val	Ala	Val	
260					265					270						
Trp	Gly	Ile	Gly	Thr	Pro	Gly	Gly	Pro	Gln	Asp	Pro	Gln	Pro	Gly	Leu	
275					280					285						
Thr	Ala	His	Val	Val	Ser	Ala	Gly	Gly	Arg	Ala	Glu	Met	His	Cys	Phe	
290					295					300						
Ser	Ile	Met	Val	Thr	Pro	Asp	Pro	Ser	Thr	Pro	Ser	Arg	Leu	Ala	Cys	
305					310					315					320	
His	Val	Met	His	Leu	Xaa	Ser	His	Arg	Leu	Asp	Glu	Tyr	Trp	Asp	Arg	
325					330					335						
Gln	Arg	Asn	Arg	His	Arg	Met	Val	Lys	Val	Asp	Pro	Glu	Thr	Arg		
340					345					350						
<210> 83																
<211> 38																
<212> PRT																
<213> Homo sapiens																
<400> 83																
Pro	Pro	Gly	Leu	Cys	Ala	Ala	Ile	Pro	Leu	Gln	Thr	Arg	Ser	Ala	Gln	
1				5					10					15		
Gly	Pro	Trp	Gly	Gly	Arg	Gln	Gly	Ser	Gly	Trp	Cys	Trp	Gly	Thr	Val	
20					25					30						
Val	Gly	Ser	Gly	Ser	Ser											
35																
<210> 84																
<211> 40																
<212> PRT																
<213> Homo sapiens																
<220>																
<221> MISC_FEATURE																
<222> (40)																
<223> Xaa equals any of the naturally occurring L-amino acids																
<400> 84																
Gly	Gly	Gly	Asn	Ala	Phe	Thr	Gly	Leu	Gly	Pro	Val	Ser	Thr	Leu	Pro	
1				5					10					15		

Ser Leu His Gly Lys Gln Gly Val Thr Ser Val Thr Cys His Gly Gly  
20 25 30

Tyr Val Tyr Thr Thr Gly Arg Xaa  
35 40

<210> 85  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 85  
Gly Ala Tyr Tyr Gln Leu Phe Val Arg Asp Gly Gln Leu Gln Pro Val  
1 5 10 15

Leu Arg Gln Lys Ser Cys Arg Gly Met Asn Trp Leu Ala Gly Leu Arg  
20 25 30

Ile Val Pro Asp Gly Ser Met Val  
35 40

<210> 86  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 86  
Ile Leu Gly Phe His Ala Asn Glu Phe Val Val Trp Asn Pro Arg Ser  
1 5 10 15

His Glu Lys Leu His Ile Val Asn Cys Gly Gly Gly His Arg Ser Trp  
20 25 30

Ala Phe Ser Asp Thr Glu Ala Ala Met  
35 40

<210> 87  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 87  
Ala Phe Ala Tyr Leu Lys Asp Gly Asp Val Met Leu Tyr Arg Ala Leu  
1 5 10 15

Gly Gly Cys Thr Arg Pro His Val Ile Leu Arg Glu Gly Leu His Gly  
20 25 30

Arg Glu Ile Thr Cys Val Lys Arg Val Gly  
35 40

<210> 88  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 88  
Thr Ile Thr Leu Gly Pro Glu Tyr Gly Val Pro Ser Phe Met Gln Pro  
1 5 10 15

Asp Asp Leu Glu Pro Gly Ser Glu Gly Pro Asp Leu Thr Asp Ile Val

20 25 30  
 Ile Thr Cys Ser Glu Asp Thr Thr Val Cys Val  
 35 40  
 <210> 89  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens  
 <400> 89  
 Leu Ala Leu Pro Thr Thr Thr Gly Ser Ala His Ala Leu Thr Ala Val  
 1 5 10 15  
 Cys Asn His Ile Ser Ser Val Arg Ala Val Ala Val Trp Gly Ile Gly  
 20 25 30  
 Thr Pro Gly Gly Pro Gln Asp Pro Gln  
 35 40  
 <210> 90  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens  
 <400> 90  
 Pro Gly Leu Thr Ala His Val Val Ser Ala Gly Gly Arg Ala Glu Met  
 1 5 10 15  
 His Cys Phe Ser Ile Met Val Thr Pro Asp Pro Ser Thr Pro Ser Arg  
 20 25 30  
 Leu Ala Cys His Val Met His Leu  
 35 40  
 <210> 91  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> MISC\_FEATURE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 91  
 Xaa Ser His Arg Leu Asp Glu Tyr Trp Asp Arg Gln Arg Asn Arg His  
 1 5 10 15  
 Arg Met Val Lys Val Asp Pro Glu Thr Arg  
 20 25  
 <210> 92  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens  
 <400> 92  
 Leu Met Ser Leu Leu Thr Ser Pro His Gln Pro Pro Pro Pro Pro Pro  
 1 5 10 15

Ala Ser Ala Ser Pro Ser Ala Val Pro Asn Gly Pro Gln Ser Pro Lys  
20 25 30

Gln Gln Lys Glu Pro Leu Ser His Arg Phe Asn Glu Phe Met Thr Ser  
35 40 45

Lys Pro Lys Ile His Cys Phe Arg Ser Leu Lys Arg Gly Val Ser Ser  
50 55 60

Ala Pro Glu Ser Cys Leu Ser Gly Val Leu Trp Leu His Val Trp Phe  
65 70 75 80

Cys Ile Thr Asn Phe Val Cys Glu  
85

<210> 93  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 93  
Phe Gln Asn Ala Lys Glu Glu Ala Ser Val Leu Pro Tyr Val Glu Thr  
1 5 10 15

Val Phe Leu Phe Gly Gly Gly Ile Phe Ala Met Ala Leu Cys Leu Ile  
20 25 30

Ser Asp Ala Leu Ser Ser Tyr Arg Asp Ser His Thr Asn Arg Val Leu  
35 40 45

Thr Ser Pro Pro Phe  
50

<210> 94  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 94  
Arg Leu Met Pro Phe Pro Pro Ser Ser Pro Arg Leu Leu Val Thr Leu  
1 5 10 15

Ala Gly Arg Glu Asp Val Val Gly His Ser Cys Asn Thr Leu Ser Ala  
20 25 30

His Leu Leu Glu Ile Val Thr Met Leu Ile Thr Trp Phe  
35 40 45

<210> 95  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 95  
Gly Gly Xaa Asp Asp Asp Glu Gly Pro Tyr Thr Pro Phe Asp Thr Pro  
1 5 -10 15



Ser Gly Lys Leu Glu Thr Val Lys Trp Ala Phe Thr Trp Pro Leu Ser  
20 25 30

Phe Val Leu Tyr Phe Thr Val Pro Asn Cys Asn Lys Pro Arg Trp Glu  
35 40 45

Lys Trp Phe  
50

<210> 96  
<211> 115  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 96  
Gly Gly Pro Arg Met Lys Arg Ser Gly Asn Pro Gly Ala Glu Val Thr  
1 5 10 15

Asn Ser Ser Val Ala Gly Pro Asp Cys Cys Gly Gly Leu Gly Asn Ile  
20 25 30

Asp Phe Arg Gln Ala Asp Phe Cys Val Met Thr Arg Leu Leu Gly Tyr  
35 40 45

Val Asp Pro Leu Asp Pro Ser Phe Val Ala Ala Val Ile Thr Ile Thr  
50 55 60

Phe Asn Pro Leu Tyr Trp Asn Val Val Ala Arg Trp Glu His Lys Thr  
65 70 75 80

Arg Lys Leu Ser Arg Ala Phe Gly Ser Pro Tyr Leu Ala Cys Tyr Ser  
85 90 95

Leu Ser Xaa Thr Ile Leu Leu Leu Asn Phe Leu Arg Ser His Cys Phe  
100 105 110

Thr Gln Ala  
115

<210> 97  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 97  
Gly Gly Pro Arg Met Lys Arg Ser Gly Asn Pro Gly Ala Glu Val Thr  
1 5 10 15

Asn Ser Ser Val Ala Gly Pro Asp Cys Cys Gly Gly Leu Gly Asn Ile  
20 25 30

Asp Phe Arg Gln Ala Asp Phe Cys Val Met Thr Arg Leu Leu Gly Tyr  
35 40 45

Val Asp Pro

50

```
<210> 98
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 98
Leu Asp Pro Ser Phe Val Ala Ala Val Ile Thr Ile Thr Phe Asn Pro
 1              5              10              15

Leu Tyr Trp Asn Val Val Ala Arg Trp Glu His Lys Thr Arg Lys Leu
              20              25              30

Ser Arg Ala Phe Gly Ser Pro Tyr Leu Ala Cys Tyr Ser Leu Ser Xaa
              35              40              45

Thr Ile Leu Leu Leu Asn Phe Leu Arg Ser His Cys Phe Thr Gln Ala
 50              55              60

<210> 99
<211> 253
<212> PRT
<213> Homo sapiens

<400> 99
Pro Gln Arg Ser Glu Leu Ala Ala Ala Ser Asn Arg Pro Cys Arg Val
 1              5              10              15

Cys Ile Ser Leu Leu Leu Cys Leu Glu Asp Arg Thr Met Pro Lys Lys
              20              25              30

Ala Lys Pro Thr Gly Ser Gly Lys Glu Glu Gly Pro Ala Pro Cys Lys
              35              40              45

Gln Met Lys Leu Glu Ala Ala Gly Gly Pro Ser Ala Leu Asn Phe Asp
 50              55              60

Ser Pro Ser Ser Leu Phe Glu Ser Leu Ile Ser Pro Ile Lys Thr Glu
 65              70              75              80

Thr Phe Phe Lys Glu Phe Trp Glu Gln Lys Pro Leu Leu Ile Gln Arg
              85              90              95

Asp Asp Pro Ala Leu Ala Thr Tyr Tyr Gly Ser Leu Phe Lys Leu Thr
              100              105              110

Asp Leu Lys Ser Leu Cys Ser Arg Gly Met Tyr Tyr Gly Arg Asp Val
              115              120              125

Asn Val Cys Arg Cys Val Asn Gly Lys Lys Lys Val Leu Asn Lys Asp
              130              135              140
```

Gly Lys Ala His Phe Leu Gln Leu Arg Lys Asp Phe Asp Gln Lys Arg  
 145 150 155 160  
 Ala Thr Ile Gln Phe His Gln Pro Gln Arg Phe Lys Asp Glu Leu Trp  
 165 170 175  
 Arg Ile Gln Glu Lys Leu Glu Cys Tyr Phe Gly Ser Leu Val Gly Ser  
 180 185 190  
 Asn Val Tyr Ile Thr Pro Ala Asp Leu Arg Ala Cys Arg Pro Ile Met  
 195 200 205  
 Met Met Ser Arg Phe Ser Ser Cys Ser Trp Arg Glu Arg Asn Thr Gly  
 210 215 220  
 Ala Ser Thr Thr Pro Leu Cys Pro Trp His Glu Ser Thr Ala Trp Arg  
 225 230 235 240  
 Pro Arg Lys Gly Ser Ala Gly Arg Cys Met Ser Leu Cys  
 245 250

<210> 100  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Pro Gln Arg Ser Glu Leu Ala Ala Ala Ser Asn Arg Pro Cys Arg Val  
 1 5 10 15  
 Cys Ile Ser Leu Leu Cys Leu Glu Asp Arg Thr Met Pro Lys Lys  
 20 25 30  
 Ala Lys Pro Thr Gly Ser Gly Lys Glu Glu Gly Pro  
 35 40

<210> 101  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 101  
 Ala Pro Cys Lys Gln Met Lys Leu Glu Ala Ala Gly Gly Pro Ser Ala  
 1 5 10 15  
 Leu Asn Phe Asp Ser Pro Ser Ser Leu Phe Glu Ser Leu Ile Ser Pro  
 20 25 30  
 Ile Lys Thr Glu Thr Phe Phe Lys Glu Phe Trp Glu Gln  
 35 40 45

<210> 102  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 102  
 Lys Pro Leu Leu Ile Gln Arg Asp Asp Pro Ala Leu Ala Thr Tyr Tyr  
 1 5 10 15  
 Gly Ser Leu Phe Lys Leu Thr Asp Leu Lys Ser Leu Cys Ser Arg Gly

```

                20                25                30
Met Tyr Tyr Gly Arg Asp Val Asn Val Cys Arg Cys
    35                40

<210> 103
<211> 45
<212> PRT
<213> Homo sapiens

<400> 103
Val Asn Gly Lys Lys Lys Val Leu Asn Lys Asp Gly Lys Ala His Phe
  1                5                10                15

Leu Gln Leu Arg Lys Asp Phe Asp Gln Lys Arg Ala Thr Ile Gln Phe
    20                25                30

His Gln Pro Gln Arg Phe Lys Asp Glu Leu Trp Arg Ile
    35                40                45

<210> 104
<211> 44
<212> PRT
<213> Homo sapiens

<400> 104
Gln Glu Lys Leu Glu Cys Tyr Phe Gly Ser Leu Val Gly Ser Asn Val
  1                5                10                15

Tyr Ile Thr Pro Ala Asp Leu Arg Ala Cys Arg Pro Ile Met Met Met
    20                25                30

Ser Arg Phe Ser Ser Cys Ser Trp Arg Glu Arg Asn
    35                40

<210> 105
<211> 31
<212> PRT
<213> Homo sapiens

<400> 105
Thr Gly Ala Ser Thr Thr Pro Leu Cys Pro Trp His Glu Ser Thr Ala
  1                5                10                15

Trp Arg Pro Arg Lys Gly Ser Ala Gly Arg Cys Met Ser Leu Cys
    20                25                30

<210> 106
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 106
Gly Gly Gly Ile His Arg Leu His Asn Gly Ala Leu Gln Leu Arg Val
  1                5                10                15

```

Leu Gln Arg Val Glu His Leu His Leu Leu His His Ala Val Lys His  
                   20                  25                  30

Ile Cys Thr Ala Ser Leu Pro Val Leu His Gly Phe Ile Ala Ala Gln  
           35                  40                  45

Cys Arg Pro Gly Xaa  
       50

<210> 107

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> MISC\_FEATURE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 107

Gly Gly Gly His Arg His Asn Gly Ala Arg Val Arg Val His His His  
   1                  5                  10                  15

His Ala Val Lys His Cys Thr Ala Ser Val His Gly Ala Ala Cys Arg  
           20                  25                  30

Gly Xaa Met Xaa Gly Ala Ala Ala Val Ser Val Arg Ala Ala Val Trp  
           35                  40                  45

Gly Arg Asp Gly Trp Tyr Val Ala Val Ala Ser Arg Lys Gly Ala Met  
           50                  55                  60

Lys Asp Met Lys Asn Val Val Gly Val Val Val Thr Thr Asn Asn Arg  
       65                  70                  75                  80

Thr Ser Ser His Gly Gly Gly Cys Asp Ser Val Met Asp Lys Arg Asn  
           85                  90                  95

Ser Gly Trp Val Asn Ser Gly Val Trp Val Ala Thr Asn Arg Asp Tyr  
           100                  105                  110

Ala Thr Gly Asp Asn Thr Val Tyr Ser Thr Thr Ala Ser Ala Met Gly  
           115                  120                  125

Thr Lys Trp Ser Arg Ser Gly Ser Ser His Asp Ala Lys Trp Asn Ser  
       130                  135                  140

Ala Ser Val Lys Asp Lys Thr Thr Asp Lys Ser Val Ser Trp Thr Cys  
       145                  150                  155                  160

Val Val

<210> 108

<211> 151

<212> PRT

<213> Homo sapiens

<400> 108

Trp Asp Arg Trp Ser Asp Ser Ala Leu Arg Arg Leu Arg Gly Ser Gly  
1 5 10 15

Asp Leu Ala Gly Glu Leu Glu Glu Leu Glu Glu Glu Arg Ala Ala Cys  
20 25 30

Gln Gly Cys Arg Ala Arg Arg Pro Trp Glu Leu Phe Gln His Arg Ala  
35 40 45

Leu Arg Arg Gln Val Thr Ser Leu Val Val Leu Gly Ser Ala Met Glu  
50 55 60

Leu Cys Gly Asn Asp Ser Val Tyr Ala Tyr Ala Ser Ser Val Phe Arg  
65 70 75 80

Lys Ala Gly Val Pro Glu Ala Lys Ile Gln Tyr Ala Ile Ile Gly Thr  
85 90 95

Gly Ser Cys Glu Leu Leu Thr Ala Val Val Ser Val Ser Leu Glu Gly  
100 105 110

Ala Leu Pro Pro Pro Ala Leu Trp Gly Gly Thr Pro Arg Ser Ser Ala  
115 120 125

Leu Asn Gln Phe Thr Leu Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys  
130 135 140

Lys Lys Lys Lys Lys Lys Lys  
145 150

<210> 109

<211> 37

<212> PRT

<213> Homo sapiens

<400> 109

Arg Arg Leu Arg Gly Ser Gly Asp Leu Ala Gly Glu Leu Glu Glu Leu  
1 5 10 15

Glu Glu Glu Arg Ala Ala Cys Gln Gly Cys Arg Ala Arg Arg Pro Trp  
20 25 30

Glu Leu Phe Gln His  
35

<210> 110

<211> 29

<212> PRT

<213> Homo sapiens

<400> 110

Arg Gln Val Thr Ser Leu Val Val Leu Gly Ser Ala Met Glu Leu Cys  
1 5 10 15

Gly Asn Asp Ser Val Tyr Ala Tyr Ala Ser Ser Val Phe  
20 25

<210> 111

<211> 34  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 111  
 Thr Gly Ser Cys Glu Leu Leu Thr Ala Val Val Ser Val Ser Leu Glu  
   1                  5                  10                  15  
  
 Gly Ala Leu Pro Pro Pro Ala Leu Trp Gly Gly Thr Pro Arg Ser Ser  
                   20                  25                  30  
  
 Ala Leu

<210> 112  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 112  
 Leu Val Gly Val Asn Ala Gly Val Ser Met Asn Ile Gln Pro Met Tyr  
   1                  5                  10                  15  
  
 Leu Gly Glu Ser Ala Pro Lys Glu Leu Arg  
                   20                  25

<210> 113  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 113  
 His Glu Leu Arg Leu Arg Lys Asn Thr Val Lys Phe Ser Leu Tyr Arg  
   1                  5                  10                  15  
  
 His Phe Lys Asn Thr Leu Ile Phe Ala Val Leu Ala Ser Ile Val Phe  
                   20                  25                  30  
  
 Met Gly Trp Thr Thr Lys Thr Phe Arg Ile Ala Lys Cys Gln Ser Asp  
           35                  40                  45  
  
 Trp

<210> 114  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 114  
 His Glu Leu Arg Leu Arg Lys Asn Thr Val Lys Phe Ser Leu Tyr Arg  
   1                  5                  10                  15  
  
 His Phe Lys Asn Thr Leu Ile Phe Ala Val Leu Ala Ser Ile Val Phe  
                   20                  25                  30  
  
 Met Gly Trp Thr Thr Lys Thr Phe Arg Ile Ala Lys Cys Gln Ser Asp  
           35                  40                  45  
  
 Trp Met Glu Arg Trp Val Asp Asp Ala Phe Trp Ser Phe Leu Phe Ser  
   50                  55                  60

Leu Ile Leu Ile Val Ile Met Phe Leu Trp Arg Pro Ser Ala Asn Asn  
 65 70 75 80  
 Gln Arg Tyr Ala Phe Met Pro Leu Ile Asp Asp Ser Asp Asp Glu Ile  
 85 90 95  
 Glu Glu Phe Met Val Thr Ser Glu Asn Leu Thr Glu Gly Ile Lys Leu  
 100 105 110  
 Arg Ala Ser Lys Ser Val Ser Asn Gly Thr Ala Lys Pro Ala Thr Ser  
 115 120 125  
 Glu Asn Phe Asp Glu Asp Leu Lys Trp Val Glu Glu Asn Ile Pro Ser  
 130 135 140  
 Ser Phe Thr Asp Val Ala Leu Pro Val Leu Val Asp Ser Asp Glu Glu  
 145 150 155 160  
 Ile Met Thr Arg Ser Glu Met Ala Glu Lys Met Phe Ser Ser Glu Lys  
 165 170 175

Ile Met

<210> 115  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 115  
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Ser Ile Ala Gln  
 1 5 10 15

Arg Ser Tyr Phe Arg Thr Leu Leu  
 20

<210> 116  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 116  
 Ala Asp Thr Asn Phe Thr Gln Glu Thr Ala Met Thr Met Ile Thr Pro  
 1 5 10 15

Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr  
 20 25 30

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn  
 35 40 45

Ser Ala Arg Gly Ile Asn Cys Ser Ala Phe Leu Leu Pro Tyr Ser Ser  
 50 55 60

His Val Trp Val Pro Leu Ser Gly Val Val Pro Leu Cys Gln Arg Asn  
 65 70 75 80

Gln Gly His Thr Val Trp Val Gln Ile Ile Tyr Ser Arg Ser Ser Phe  
 85 90 95



Thr Asp Val Phe Ile Ser Thr Arg  
100

<210> 117  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 117  
Met Thr Met Ile Thr Pro Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn  
1 5 10 15

Lys Ser Trp Ser Ser Thr Ala Val Ala Ala  
20 25

<210> 118  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 118  
Arg Gly Ile Asn Cys Ser Ala Phe Leu Leu Pro Tyr Ser Ser His Val  
1 5 10 15

Trp Val Pro Leu  
20

<210> 119  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 119  
Val Val Pro Leu Cys Gln Arg Asn Gln Gly His Thr Val Trp Val Gln  
1 5 10 15

Ile Ile Tyr Ser Arg Ser Ser Phe  
20

<210> 120  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 120  
Asn Phe Asp Ile Lys Val Leu Asn Ala Gln Arg Ala Gly Tyr Lys Ala  
1 5 10 15

Ala Ile Val His Asn Val Asp Ser Asp Asp  
20 25

<210> 121  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 121  
Val Leu Lys Lys Ile Asp Ile Pro Ser Val Phe Ile Gly Glu Ser Ser  
1 5 10 15

Ala Asn Ser Leu Lys Asp Glu Phe Thr Tyr Glu Lys

20 25

<210> 122  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 122  
 Pro Glu Phe Ser Leu Pro Leu Glu Tyr Tyr Leu Ile Pro Phe Leu Ile  
 1 5 10 15  
 Ile Val Gly Ile Cys Leu Ile Leu Ile Val Ile Phe Met Ile  
 20 25 30

<210> 123  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 123  
 Thr Lys Phe Val Gln Asp Arg His Arg Ala Arg Arg Asn Arg Leu Arg  
 1 5 10 15  
 Lys Asp Gln Leu Lys Lys Leu Pro Val His Lys Phe Lys Lys Gly Asp  
 20 25 30

Glu Tyr

<210> 124  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 124  
 Glu Asp Gly Asp Lys Leu Arg Ile Leu Pro Cys Ser His Ala Tyr His  
 1 5 10 15  
 Cys Lys Cys Val Asp Pro Trp Leu Thr Lys Thr  
 20 25

<210> 125  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 125  
 Val Val Pro Ser Gln Gly Asp Ser Asp Ser Asp Thr Asp Ser Ser Gln  
 1 5 10 15  
 Glu Glu Asn Glu Val Thr Glu His  
 20

<210> 126  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 126  
 Gln Ser Phe Gly Ala Leu Ser Glu Ser Arg Ser His Gln Asn Met Thr  
 1 5 10 15

Glu Ser Ser Asp Tyr Glu Glu Asp Asp Asn Glu Asp Thr  
 20 25

<210> 127  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<400> 127  
 Ile Arg Arg Leu Asp Cys Asn Phe Asp Ile Lys Val Leu Asn Ala Gln  
 1 5 10 15  
 Arg Ala Gly Tyr Lys Ala Ala Ile Val His Asn Val Asp Ser Asp Asp  
 20 25 30  
 Leu Ile Ser Met Gly Ser Asn Asp Ile Glu Val Leu Lys Lys Ile Asp  
 35 40 45  
 Ile Pro Ser Val Phe Ile Gly Glu Ser Ser Ala Asn Ser Leu Lys Asp  
 50 55 60  
 Glu Phe Thr Tyr Glu Lys Gly Gly His Leu Ile Leu Val Pro Glu Phe  
 65 70 75 80  
 Ser Leu Pro Leu Glu Tyr Tyr Leu Ile Pro Phe Leu Ile Ile Val Gly  
 85 90 95  
 Ile Cys Leu Ile Leu Ile Val Ile Phe Met Ile Thr Lys Phe Val Gln  
 100 105 110  
 Asp Arg His Arg Ala Arg Arg Asn Arg Leu Arg Lys Asp Gln Leu Lys  
 115 120 125  
 Lys Leu Pro Val His Lys Phe Lys Lys Gly Asp Glu Tyr Asp Val Cys  
 130 135 140  
 Ala Ile Cys Leu Asp Glu Tyr Glu Asp Gly Asp Lys Leu Arg Ile Leu  
 145 150 155 160  
 Pro Cys Ser His Ala Tyr His Cys Lys Cys Val Asp Pro Trp Leu Thr  
 165 170 175  
 Lys Thr Lys Lys Thr Cys Pro Val Cys Lys Gln Lys Val Val Pro Ser  
 180 185 190  
 Gln Gly Asp Ser Asp Ser Asp Thr Asp Ser Ser Gln Glu Glu Asn Glu  
 195 200 205  
 Val Thr Glu His Thr Pro Leu Leu Arg Pro Leu Ala Ser Val Ser Ala  
 210 215 220  
 Gln Ser Phe Gly Ala Leu Ser Glu Ser Arg Ser His Gln Asn Met Thr  
 225 230 235 240  
 Glu Ser Ser Asp Tyr Glu Glu Asp Asp Asn Glu Asp Thr Asp Ser Ser  
 245 250 255  
 Asp Ala Glu

<210> 128  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 128  
 Met Leu Leu Ser Ile Gly Met Leu Met Leu Ser Ala Thr Gln Val Tyr  
           1                  5                  10                  15  
 Thr Ile Leu Thr Val Gln Leu Phe Ala Phe Leu Asn Leu Leu Pro Val  
                   20                  25                  30  
 Glu Ala Asp Ile Leu Ala Tyr Asn Phe Glu Asn Ala Ser Gln Thr Phe  
           35                  40                  45  
 Asp Asp Leu Pro Ala Arg Phe Gly Tyr Arg Leu Pro Ala Glu Gly Leu  
           50                  55                  60  
 Lys Gly Phe Leu Ile Asn Ser Lys Pro Glu Asn Ala Cys Glu Pro Ile  
           65                  70                  75                  80  
 Val Pro Pro Pro Val Lys Asp Asn Ser Ser Gly His Phe His Arg Val  
                   85                  90                  95

Asn

<210> 129  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 129  
 Ala Gln Cys Ser Ile Tyr Leu Ile Gln Val Ile Phe Gly Ala Val Asp  
           1                  5                  10                  15  
 Leu Pro Ala Lys Leu Val Gly Phe Leu Val Ile Asn Ser Leu Gly Arg  
                   20                  25                  30  
 Arg Pro Ala Gln  
                   35

<210> 130  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 130  
 Gly Thr Val Gln His Leu Pro Asn Pro Gly Asp Leu Trp Cys Cys Gly  
           1                  5                  10                  15  
 Pro Ala Cys Gln Ala Cys Gly Leu Pro Cys His Gln Leu Pro Gly Ser  
                   20                  25                  30  
 Pro Ala Cys Pro Asp Gly Cys Thr Ala Ala Gly Arg His Leu His Pro  
                   35                  40                  45  
 Ala Gln Trp Gly Asp Thr Pro Gly Pro Val His Cys Pro Asn Leu Ser  
           50                  55                  60  
 Cys Cys Ala Gly Glu Gly Leu Ser Gly Cys Leu Leu Gln Leu His Leu

65		70		75		80
Pro Val Tyr Trp Glu Leu Tyr Pro Thr Met Ile Arg Gln Thr Gly Met						
	85			90		95
Gly Met Gly Ser Thr Met Ala Arg Val Gly Ser Ile Val Ser Pro Leu						
	100		105			110
Val Ser Met Thr Ala Glu Leu Tyr Pro Ser Met Pro Leu Phe Ile Tyr						
	115		120			125
Gly Ala Val Pro Val Ala Ala Ser Ala Val Thr Val Leu Leu Pro Glu						
	130		135			140
Thr Leu Gly Gln Pro Leu Pro Asp Thr Val Gln Asp Leu Glu Ser Arg						
	145		150		155	160
Lys Gly Lys Gln Thr Arg Gln Gln Gln Glu His Gln Lys Tyr Met Val						
	165			170		175
Pro Leu Gln Ala Ser Ala Gln Glu Lys Asn Gly Leu						
	180			185		

<210> 131  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 131
Leu Pro Asn Pro Gly Asp Leu Trp Cys Cys Gly Pro Ala Cys Gln Ala
1 5 10 15
Cys Gly Leu Pro Cys His Gln
20

<210> 132  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 132
Gly Cys Thr Ala Ala Gly Arg His Leu His Pro Ala Gln Trp Gly Asp
1 5 10 15
Thr Pro Gly Pro Val His Cys Pro Asn Leu
20 25

<210> 133  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 133
Leu His Leu Pro Val Tyr Trp Glu Leu Tyr Pro Thr Met Ile Arg Gln
1 5 10 15
Thr Gly Met Gly Met Gly
20

<210> 134  
 <211> 23

<212> PRT  
 <213> Homo sapiens  
  
 <400> 134  
 Leu Val Ser Met Thr Ala Glu Leu Tyr Pro Ser Met Pro Leu Phe Ile  
   1                  5                  10                  15  
  
 Tyr Gly Ala Val Pro Val Ala  
                   20  
  
 <210> 135  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 135  
 Pro Asp Thr Val Gln Asp Leu Glu Ser Arg Lys Gly Lys Gln Thr Arg  
   1                  5                  10                  15  
  
 Gln Gln Gln Glu His Gln Lys Tyr Met Val Pro  
                   20                  25  
  
 <210> 136  
 <211> 720  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 136  
 Cys Leu Glu Ala Ala Met Ile Glu Gly Glu Ile Glu Ser Leu His Ser  
   1                  5                  10                  15  
  
 Glu Asn Ser Gly Lys Ser Gly Gln Glu His Trp Phe Thr Glu Leu Pro  
                   20                  25                  30  
  
 Pro Val Leu Thr Phe Glu Leu Ser Arg Phe Glu Phe Asn Gln Ala Leu  
                   35                  40                  45  
  
 Gly Arg Pro Glu Lys Ile His Asn Lys Leu Glu Phe Pro Gln Val Leu  
                   50                  55                  60  
  
 Tyr Leu Asp Arg Tyr Met His Arg Asn Arg Glu Ile Thr Arg Ile Lys  
   65                  70                  75                  80  
  
 Arg Glu Glu Ile Lys Arg Leu Lys Asp Tyr Leu Thr Val Leu Gln Gln  
                   85                  90                  95  
  
 Arg Leu Glu Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro  
                   100                  105                  110  
  
 Leu Val Asp Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro  
                   115                  120                  125  
  
 Val Cys Thr Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser  
   130                  135                  140  
  
 Gly Ser Ile Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly  
  145                  150                  155                  160  
  
 Ala Leu Ser Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala  
                   165                  170                  175

Ile Ser Ser Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile  
 180 185 190  
 Pro Pro Asp Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu  
 195 200 205  
 Glu Leu Ser Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile  
 210 215 220  
 Glu Asn Asp Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg  
 225 230 235 240  
 Thr Ile Glu Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr  
 245 250 255  
 Arg Leu His Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His  
 260 265 270  
 Tyr Trp Ala Tyr Ile Phe Asp His Arg Glu Ser Arg Trp Met Lys Tyr  
 275 280 285  
 Asn Asp Ile Ala Val Thr Lys Ser Ser Trp Glu Glu Leu Val Arg Asp  
 290 295 300  
 Ser Phe Gly Gly Tyr Arg Asn Ala Ser Ala Tyr Cys Leu Met Tyr Ile  
 305 310 315 320  
 Asn Asp Lys Ala Gln Phe Leu Ile Gln Glu Glu Phe Asn Lys Glu Thr  
 325 330 335  
 Gly Gln Pro Leu Val Gly Ile Glu Thr Leu Pro Pro Asp Leu Arg Asp  
 340 345 350  
 Phe Val Glu Glu Asp Asn Gln Arg Phe Glu Lys Glu Leu Glu Glu Trp  
 355 360 365  
 Asp Ala Gln Leu Ala Gln Lys Ala Leu Gln Glu Lys Leu Leu Ala Ser  
 370 375 380  
 Gln Lys Leu Arg Glu Ser Glu Thr Ser Val Thr Thr Ala Gln Ala Ala  
 385 390 395 400  
 Gly Asp Pro Glu Tyr Leu Glu Gln Pro Ser Arg Ser Asp Phe Ser Lys  
 405 410 415  
 His Leu Lys Glu Glu Thr Ile Gln Ile Ile Thr Lys Ala Ser His Glu  
 420 425 430  
 His Glu Asp Lys Ser Pro Glu Thr Val Leu Gln Ser Ala Ile Lys Leu  
 435 440 445  
 Glu Tyr Ala Arg Leu Val Lys Leu Ala Gln Glu Asp Thr Pro Pro Glu  
 450 455 460  
 Thr Asp Tyr Arg Leu His His Val Val Val Tyr Phe Ile Gln Asn Gln  
 465 470 475 480  
 Ala Pro Lys Lys Ile Ile Glu Lys Thr Leu Leu Glu Gln Phe Gly Asp  
 485 490 495  
 Arg Asn Leu Ser Phe Asp Glu Arg Cys His Asn Ile Met Lys Val Ala

500					505					510					
Gln	Ala	Lys	Leu	Glu	Met	Ile	Lys	Pro	Glu	Glu	Val	Asn	Leu	Glu	Glu
		515					520					525			
Tyr	Glu	Glu	Trp	His	Gln	Asp	Tyr	Arg	Lys	Phe	Arg	Glu	Thr	Thr	Met
	530					535					540				
Tyr	Leu	Ile	Ile	Gly	Leu	Glu	Asn	Phe	Gln	Arg	Glu	Ser	Tyr	Ile	Asp
545					550					555					560
Ser	Leu	Leu	Phe	Leu	Ile	Cys	Ala	Tyr	Gln	Asn	Asn	Lys	Glu	Leu	Leu
				565					570					575	
Ser	Lys	Gly	Leu	Tyr	Arg	Gly	His	Asp	Glu	Glu	Leu	Ile	Ser	His	Tyr
			580					585					590		
Arg	Arg	Glu	Cys	Leu	Leu	Lys	Leu	Asn	Glu	Gln	Ala	Ala	Glu	Leu	Phe
		595					600					605			
Glu	Ser	Gly	Glu	Asp	Arg	Glu	Val	Asn	Asn	Gly	Leu	Ile	Ile	Met	Asn
	610					615					620				
Glu	Phe	Ile	Val	Pro	Phe	Leu	Pro	Leu	Leu	Leu	Val	Asp	Glu	Met	Glu
625					630					635					640
Glu	Lys	Asp	Ile	Leu	Ala	Val	Glu	Asp	Met	Arg	Asn	Arg	Trp	Cys	Ser
				645					650					655	
Tyr	Leu	Gly	Gln	Glu	Met	Glu	Pro	His	Leu	Gln	Glu	Lys	Leu	Thr	Asp
			660					665					670		
Phe	Leu	Pro	Lys	Leu	Leu	Asp	Cys	Ser	Met	Glu	Ile	Lys	Ser	Phe	His
		675					680					685			
Glu	Pro	Pro	Lys	Leu	Pro	Ser	Tyr	Ser	Thr	His	Glu	Leu	Cys	Glu	Arg
	690					695					700				
Phe	Ala	Arg	Ile	Met	Leu	Ser	Leu	Ser	Arg	Thr	Pro	Ala	Asp	Gly	Arg
705					710					715					720

<210> 137  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 137  
 Met Ile Glu Gly Glu Ile Glu Ser Leu His Ser Glu Asn Ser Gly Lys  
 1 5 10 15  
 Ser Gly Gln Glu His Trp Phe Thr  
 20

<210> 138  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens



<400> 138  
 Phe Glu Leu Ser Arg Phe Glu Phe Asn Gln Ala Leu Gly Arg Pro Glu  
 1 5 10 15  
  
 Lys Ile His Asn Lys Leu Glu Phe Pro  
 20 25  
  
 <210> 139  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 139  
 Glu Ile Thr Arg Ile Lys Arg Glu Glu Ile Lys Arg Leu Lys Asp Tyr  
 1 5 10 15  
  
 Leu Thr Val Leu Gln Gln Arg Leu Glu Arg  
 20 25  
  
 <210> 140  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 140  
 Pro Lys Arg Phe Pro Leu Val Asp Val Leu Gln Tyr Ala Leu Glu Phe  
 1 5 10 15  
  
 Ala Ser Ser Lys Pro Val Cys Thr Ser Pro Val  
 20 25  
  
 <210> 141  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 141  
 Ile Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu  
 1 5 10 15  
  
 Ser Ser Glu Leu Pro Ser Thr Ser Pro Ser  
 20 25  
  
 <210> 142  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 142  
 Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp Leu  
 1 5 10 15  
  
 Pro Met His Pro Ala Pro Arg His  
 20  
  
 <210> 143  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 143

Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp Thr Arg Asp Leu  
 1 5 10 15

Gln Glu Ser Ile Ser Arg Ile  
 20

<210> 144  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 144  
 Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His Ala Val Leu Val His  
 1 5 10 15

Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala Tyr  
 20 25

<210> 145  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Arg Trp Met Lys Tyr Asn Asp Ile Ala Val Thr Lys Ser Ser Trp Glu  
 1 5 10 15

Glu Leu Val Arg Asp Ser Phe Gly Gly Tyr Arg Asn Ala  
 20 25

<210> 146  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Ile Asn Asp Lys Ala Gln Phe Leu Ile Gln Glu Glu Phe Asn Lys Glu  
 1 5 10 15

Thr Gly Gln Pro Leu Val Gly Ile  
 20

<210> 147  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 147  
 Met Ile Gln Val Pro Tyr Arg Leu His Ala Val Leu Val His Glu Gly  
 1 5 10 15

Gln Ala Asn Ala Gly His Tyr  
 20

<210> 148  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 Asp Asn Gln Arg Phe Glu Lys Glu Leu Glu Glu Trp Asp Ala Gln Leu

1                    5                    10                    15  
 Ala Gln Lys Ala Leu Gln Glu Lys Leu Leu  
                   20                    25  
  
 <210> 149  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 149  
 Ser Glu Thr Ser Val Thr Thr Ala Gln Ala Ala Gly Asp Pro Glu Tyr  
   1                    5                    10                    15  
  
 Leu Glu Gln Pro Ser Arg Ser  
                   20  
  
 <210> 150  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 150  
 Gln Ile Ile Thr Lys Ala Ser His Glu His Glu Asp Lys Ser Pro Glu  
   1                    5                    10                    15  
  
 Thr Val Leu Gln Ser Ala Ile Lys Leu Glu Tyr Ala  
                   20                    25  
  
 <210> 151  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 151  
 Leu Ala Gln Glu Asp Thr Pro Pro Glu Thr Asp Tyr Arg Leu His His  
   1                    5                    10                    15  
  
 Val Val Val Tyr Phe Ile Gln Asn Gln Ala Pro Lys  
                   20                    25  
  
 <210> 152  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 152  
 Gly Asp Arg Asn Leu Ser Phe Asp Glu Arg Cys His Asn Ile Met Lys  
   1                    5                    10                    15  
  
 Val Ala Gln Ala Lys Leu Glu Met Ile Lys Pro Glu Glu  
                   20                    25  
  
 <210> 153  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 153  
 Glu Glu Trp His Gln Asp Tyr Arg Lys Phe Arg Glu Thr Thr Met Tyr  
   1                    5                    10                    15

Leu Ile Ile Gly Leu Glu Asn Phe Gln Arg  
 20 25

<210> 154  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 154  
 Ile Cys Ala Tyr Gln Asn Asn Lys Glu Leu Leu Ser Lys Gly Leu Tyr  
 1 5 10 15

Arg Gly His Asp Glu Glu Leu Ile Ser His Tyr Arg Arg  
 20 25

<210> 155  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 155  
 Cys Leu Leu Lys Leu Asn Glu Gln Ala Ala Glu Leu Phe Glu Ser Gly  
 1 5 10 15

Glu Asp Arg Glu Val Asn Asn Gly Leu Ile Ile Met  
 20 25

<210> 156  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 156  
 Val Asp Glu Met Glu Glu Lys Asp Ile Leu Ala Val Glu Asp Met Arg  
 1 5 10 15

Asn Arg Trp Cys Ser Tyr Leu Gly Gln Glu Met Glu Pro His Leu  
 20 25 30

<210> 157  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 157  
 Gln Glu Lys Leu Thr Asp Phe Leu Pro Lys Leu Leu Asp Cys Ser Met  
 1 5 10 15

Glu Ile Lys Ser Phe His Glu Pro Pro  
 20 25

<210> 158  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 158  
 Gln Ile Ala Thr Ser Val His His Asn Ile Asn Arg Lys Lys Arg Ser  
 1 5 10 15

Val Leu Arg Leu Leu  
20

<210> 159  
<211> 127  
<212> PRT  
<213> Homo sapiens

<400> 159  
Gln Ile Ala Thr Ser Val His His Asn Ile Asn Arg Lys Lys Arg Ser  
1 5 10 15

Val Leu Arg Leu Leu Met Phe Cys Phe Tyr Leu Asn Tyr Phe Thr Asn  
20 25 30

Leu Phe Leu Phe Leu Thr Cys Ser Arg Ser Glu Ser Leu Ser Ser Pro  
35 40 45

Thr Gly Pro Tyr Ser Gly Phe Pro Phe Leu Lys Ser Pro Pro Val Arg  
50 55 60

Asn Ser Leu Asn Lys Gly Pro Leu Leu Val Gln Tyr Tyr Ser Phe Ser  
65 70 75 80

Ser His Leu Arg Val Pro Arg Lys Lys Lys Gln Val Ile Arg Val Pro  
85 90 95

Val Arg Val Pro Pro Lys Ser Pro Ala Met Ser Pro Pro Ser Ser Pro  
100 105 110

Arg Phe His Phe Phe Thr Phe Ser Gly Pro Phe Pro Asn Ser Tyr  
115 120 125

<210> 160  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> MISC\_FEATURE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 160  
Pro Leu Leu Arg Gly Leu Phe Ile Arg Xaa Arg Ala Gly His Tyr Glu  
1 5 10 15

Cys Val Phe His Glu Xaa Val Glu Gly Gly Ala Cys Cys Glu Gln Cys  
20 25 30

<210> 161  
<211> 44  
<212> PRT

<213> Homo sapiens

<400> 161

Leu Val Asn Asn Ser Phe Phe Leu Glu Phe Ile Tyr Arg Pro Asp Ser  
1 5 10 15

Lys Asn Trp Gln Tyr Gln Glu Thr Ile Lys Lys Gly Asp Leu Leu Leu  
20 25 30

Asn Arg Val Gln Lys Leu Ser Arg Val Ile Asn Met  
35 40

<210> 162

<211> 34

<212> PRT

<213> Homo sapiens

<400> 162

Ile Arg Glu Leu Ser Arg Phe Ile Ala Ala Gly Arg Leu His Cys Lys  
1 5 10 15

Ile Asp Lys Val Asn Glu Ile Val Glu Thr Asn Arg Tyr Ser His Phe  
20 25 30

Ser Glu

<210> 163

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> MISC\_FEATURE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 163

Pro Leu Leu Arg Gly Leu Phe Ile Arg Xaa Arg Ala Gly His Tyr Glu  
1 5 10 15

Cys Val Phe His Glu Xaa Val Glu Gly Gly Ala Cys Cys Glu Gln Cys  
20 25 30

Met Arg Lys Thr Ala Trp Leu Cys Phe Phe Phe Gln Leu Cys Gly Leu  
35 40 45

Gly Gln Val Thr Ser Leu Gln Tyr Arg Asn Cys Asn Val Glu Ile Lys  
50 55 60

Pro Ser Leu Val Arg Gly Thr His Arg Ser Ile Pro  
65 70 75

<210> 164

<211> 195

<212> PRT

<213> Homo sapiens  
 <220>  
 <221> MISC\_FEATURE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 164  
 Gly Ser Gln Pro Pro Gly Pro Val Pro Glu Xaa Leu Ile Arg Ile Tyr  
 1 5 10 15  
 Ser Met Arg Phe Cys Pro Tyr Ser His Arg Thr Arg Leu Val Leu Lys  
 20 25 30  
 Ala Lys Asp Ile Arg His Glu Val Val Asn Ile Asn Leu Arg Asn Lys  
 35 40 45  
 Pro Glu Trp Tyr Tyr Thr Lys His Pro Phe Gly His Ile Pro Val Leu  
 50 55 60  
 Glu Thr Ser Gln Cys Gln Leu Ile Tyr Glu Ser Val Ile Ala Cys Glu  
 65 70 75 80  
 Tyr Leu Asp Asp Ala Tyr Pro Gly Arg Lys Leu Phe Pro Tyr Asp Pro  
 85 90 95  
 Tyr Glu Arg Ala Arg Gln Lys Met Leu Leu Glu Leu Phe Cys Lys Val  
 100 105 110  
 Pro His Leu Thr Lys Glu Cys Leu Val Ala Leu Arg Cys Gly Arg Glu  
 115 120 125  
 Cys Thr Asn Leu Lys Ala Ala Leu Arg Gln Glu Phe Ser Asn Leu Glu  
 130 135 140  
 Glu Ile Leu Glu Tyr Gln Asn Thr Thr Phe Phe Gly Gly Thr Cys Ile  
 145 150 155 160  
 Ser Met Ile Asp Tyr Leu Leu Trp Pro Trp Phe Glu Arg Leu Asp Val  
 165 170 175  
 Tyr Gly Ile Leu Asp Cys Val Ser His Thr Pro Ala Cys Gly Ser Gly  
 180 185 190  
 Tyr Gln Pro  
 195  
 <210> 165  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens  
 <400> 165  
 Leu Ala Ser Pro Phe Pro Val Pro Leu His Arg Cys Ser Ala  
 1 5 10  
 <210> 166  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Met Arg Phe Cys Pro Tyr Ser His Arg Thr Arg Leu Val Leu Lys Ala  
 1 5 10 15  
  
 Lys Asp Ile Arg His Glu Val Val Asn Ile Asn Leu Arg  
 20 25  
  
 <210> 167  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 167  
 Asn Lys Pro Glu Trp Tyr Tyr Thr Lys His Pro Phe Gly His Ile Pro  
 1 5 10 15  
  
 Val Leu Glu Thr Ser Gln Cys Gln  
 20  
  
 <210> 168  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 168  
 Lys Leu Phe Pro Tyr Asp Pro Tyr Glu Arg Ala Arg Gln Lys Met Leu  
 1 5 10 15  
  
 Leu Glu Leu Phe Cys Lys Val Pro  
 20  
  
 <210> 169  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 169  
 Val Ala Leu Arg Cys Gly Arg Glu Cys Thr Asn Leu Lys Ala Ala Leu  
 1 5 10 15  
  
 Arg Gln Glu Phe Ser Asn Leu Glu Glu  
 20 25  
  
 <210> 170  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 170  
 Ser Met Ile Asp Tyr Leu Leu Trp Pro Trp Phe Glu Arg Leu Asp Val  
 1 5 10 15  
  
 Tyr Gly Ile Leu Asp Cys Val Ser  
 20  
  
 <210> 171  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>



<221> MISC\_FEATURE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 171  
 Ala Ala Gly Cys Val Trp Asp Thr Gly Leu Cys Glu Pro His Xaa Ser  
   1                  5                  10                  15  
  
 Leu Arg Leu Trp Ile Ser Ala Met Lys Trp Asp Pro Thr Val Cys Ala  
                   20                  25                  30  
  
 Leu Leu Met Asp Lys Ser Ile Phe Gln Gly Phe Leu Asn Leu Tyr Phe  
           35                  40                  45  
  
 Gln Asn Asn Pro Asn Ala Phe Asp Phe Gly Leu Cys  
   50                  55                  60  
  
 <210> 172  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 172  
 Val Tyr Leu Phe Leu Thr Tyr Arg Gln Ala Val Val Ile Ala Leu Leu  
   1                  5                  10                  15  
  
 Val Lys Val Gly Val Ile Ser Glu Lys His Thr Trp Glu Trp Gln Thr  
                   20                  25                  30  
  
 Val Glu Ala Val Ala Thr Gly Leu Gln Asp Phe Ile Ile Cys Ile Glu  
           35                  40                  45  
  
 Met Phe Leu Ala Ala Ile Ala His His Tyr Thr Phe Ser Tyr Lys Pro  
   50                  55                  60  
  
 Tyr Val Gln Glu Ala Glu Glu Gly Ser Cys Phe Asp Ser Phe Leu Ala  
   65                  70                  75                  80  
  
 Met Trp Asp Val Ser Asp Ile Arg Asp Asp Ile Ser Glu Gln Val Arg  
                   85                  90                  95  
  
 His Val Gly Arg Thr Val Arg Gly His Pro Arg Lys Lys Leu Phe Pro  
           100                  105                  110  
  
 Glu Asp Gln Asp Gln Asn Glu His Thr Ser Leu Leu Ser Ser Ser Ser  
           115                  120                  125  
  
 Gln Asp Ala Ile Ser Ile Ala Ser Ser Met Pro Pro Ser Pro Met Gly  
   130                  135                  140  
  
 His Tyr Gln Gly Phe Gly His Thr Val Thr Pro Gln Thr Thr Pro Thr  
   145                  150                  155                  160  
  
 Thr Ala Lys Ile Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys  
                   165                  170                  175  
  
 Lys Glu Pro Ser  
           180  
  
 <210> 173  
 <211> 176

<212> PRT

<213> Homo sapiens

<400> 173

Thr	Asn	Asn	Lys	Asp	Ser	Leu	Gly	Trp	Tyr	Leu	Phe	Thr	Val	Leu	Asp
1				5					10					15	
Ser	Trp	Ile	Ala	Leu	Lys	Tyr	Pro	Gly	Ile	Ala	Ile	Tyr	Val	Asp	Thr
			20					25					30		
Cys	Arg	Glu	Cys	Tyr	Glu	Ala	Tyr	Val	Ile	Tyr	Asn	Phe	Met	Gly	Phe
		35					40					45			
Leu	Thr	Asn	Tyr	Leu	Thr	Asn	Arg	Tyr	Pro	Asn	Leu	Val	Leu	Ile	Leu
	50					55					60				
Glu	Ala	Lys	Asp	Gln	Gln	Lys	His	Phe	Pro	Pro	Leu	Cys	Cys	Cys	Pro
65					70					75					80
Pro	Trp	Ala	Met	Gly	Glu	Val	Leu	Leu	Phe	Arg	Cys	Lys	Leu	Ser	Val
				85					90					95	
Leu	Gln	Tyr	Thr	Val	Val	Arg	Pro	Phe	Thr	Thr	Ile	Val	Ala	Leu	Ile
		100						105					110		
Cys	Glu	Leu	Leu	Gly	Ile	Tyr	Asp	Glu	Gly	Asn	Phe	Ser	Phe	Ser	Asn
		115					120					125			
Ala	Trp	Thr	Tyr	Leu	Val	Ile	Ile	Asn	Asn	Met	Ser	Gln	Leu	Phe	Ala
	130					135					140				
Met	Tyr	Cys	Leu	Leu	Leu	Phe	Tyr	Lys	Val	Leu	Lys	Glu	Glu	Leu	Ser
145					150					155					160
Pro	Ile	Gln	Pro	Val	Gly	Lys	Phe	Leu	Cys	Val	Lys	Leu	Val	Val	Phe
				165					170					175	

<210> 174

<211> 28

<212> PRT

<213> Homo sapiens

<400> 174

Gln	Asn	Ser	Gln	Arg	Thr	Gly	Leu	Pro	Ile	Thr	Ile	Phe	Ser	Arg	Ser
1				5					10					15	
Phe	Pro	Leu	Leu	Thr	Gly	Ser	Asp	Leu	Cys	Glu	Asn				
			20					25							

<210> 175

<211> 85

<212> PRT

<213> Homo sapiens

<400> 175

Gln	Asn	Ser	Gln	Arg	Thr	Gly	Leu	Pro	Ile	Thr	Ile	Phe	Ser	Arg	Ser
1				5					10					15	

Phe Pro Leu Leu Thr Gly Ser Asp Leu Cys Glu Asn Met Pro Cys Thr  
                     20                    25                    30  
 Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro Leu Val Ala Val  
                     35                    40                    45  
 Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu Cys Val Trp Glu  
                     50                    55                    60  
 Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala Trp Phe Ile Ala  
                     65                    70                    75                    80  
 Gly Ile Phe Leu Leu  
                     85

<210> 176  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Gln Phe Phe Leu Cys Arg Asp Cys Ser  
   1                    5

<210> 177  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 177  
 Glu Arg Glu Ser Cys Ser Ile Ile Gln Ala Gly Val Gln Trp Cys Asn  
   1                    5                    10                    15

Leu Ser Ser Leu Arg Pro Pro Pro Pro Gly Phe Lys Gln Phe Ser His  
                     20                    25                    30

Leu Ser Leu Pro Ser Ser  
                     35

<210> 178  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 178  
 Leu Arg Glu Asn Leu Ala Leu Ser Ser Arg Leu Glu Cys Ser Gly Ala  
   1                    5                    10                    15

Ile Ser Ala His Cys Asp Leu His Leu Leu Gly Ser Ser Asn Ser Pro  
                     20                    25                    30

Thr Ser Ala Ser Gln Val Val Arg Thr Thr Gly Ala His His Gln Ala  
                     35                    40                    45

Gln Pro Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His Val Gly  
                     50                    55                    60

Gln Ala His Leu Lys Gln Leu Thr Ser Arg Tyr Pro Pro His Leu Ala  
                     65                    70                    75                    80

Ser Gln Ser Ala Gly Ile Thr Gly Met Ser Tyr Arg Thr Gln Pro Lys

	85		90		95										
Leu	Leu	Trp	Phe	Tyr	Leu	Tyr	Lys	Gln	Phe	Lys	Gln	Tyr	Arg	Glu	Val
	100							105					110		
Gly	Ser	Arg	Lys												
	115														
<210> 179															
<211> 25															
<212> PRT															
<213> Homo sapiens															
<400> 179															
Ser	Ser	Arg	Leu	Glu	Cys	Ser	Gly	Ala	Ile	Ser	Ala	His	Cys	Asp	Leu
1				5					10					15	
His	Leu	Leu	Gly	Ser	Ser	Asn	Ser	Pro							
			20					25							
<210> 180															
<211> 40															
<212> PRT															
<213> Homo sapiens															
<400> 180															
Gly	Ala	His	His	Gln	Ala	Gln	Pro	Ile	Phe	Val	Phe	Leu	Val	Glu	Thr
1				5					10					15	
Gly	Phe	His	His	Val	Gly	Gln	Ala	His	Leu	Lys	Gln	Leu	Thr	Ser	Arg
				20				25					30		
Tyr	Pro	Pro	His	Leu	Ala	Ser	Gln								
		35					40								
<210> 181															
<211> 25															
<212> PRT															
<213> Homo sapiens															
<400> 181															
Ile	Thr	Gly	Met	Ser	Tyr	Arg	Thr	Gln	Pro	Lys	Leu	Leu	Trp	Phe	Tyr
1				5					10					15	
Leu	Tyr	Lys	Gln	Phe	Lys	Gln	Tyr	Arg							
			20					25							
<210> 182															
<211> 25															
<212> PRT															
<213> Homo sapiens															
<400> 182															
Glu	Asn	Phe	Pro	Glu	Thr	Arg	Glu	Val	Arg	Ala	Phe	Ser	Pro	Arg	Glu
1				5					10					15	
Asn	Leu	Glu	Leu	Cys	Thr	Cys	Lys	Ser							
			20					25							
<210> 183															
<211> 11															

<212> PRT  
<213> Homo sapiens

<400> 183  
Ala Leu Tyr Cys Ser Pro Ser Leu Gln Ile Asp  
1 5 10

<210> 184  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 184  
Cys His Cys Ser Met Leu Lys Ser His Gly Asp Val Gln Asn Val Leu  
1 5 10 15  
Thr Leu Phe Val Thr Val Leu Ser Asp Val Ser Tyr Leu Gln Gln Ile  
20 25 30  
Gln Lys Lys Leu Arg  
35

<210> 185  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 185  
Cys Tyr Phe His Gln Lys Ala Gln Ser Asn Gly Pro Glu Lys Gln Glu  
1 5 10 15  
Lys Glu Gly Val Ile Gln Asn Phe Lys Arg Thr Leu Ser Lys Lys Glu  
20 25 30  
Lys Lys Glu Lys Lys Lys Lys  
35